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Cooperative ECONOMIC INSECT REPORT

Issued by

PLANT PEST CONTROL DIVISION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearing house and does not assume responsibility for accuracy of the material.

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COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

EUROPEAN CORN BORER feeding damage becoming apparent on corn in some more northern sections. ARMYWORM field populations adversely affected by parasitism and fungus disease in southern Michigan; potential problems considerably lessened. (p. 707). CUTWORMS remain a problem on corn and other crops in scattered areas. (p. 708). CEREAL LEAF BEETLE emergence widespread and activity of summer adults underway in Michigan; large numbers of summer adults emerged in Indiana and numbers increasing. CHINCH BUG populations variable on grains in Ohio, Indiana, Illinois and Oklahoma. (p. 709). GRASSHOPPERS threatening on cropland and grasslands in Oklahoma; increasing on pastures and field crops in Maryland. RED-LEGGED GRASSHOPPER increasing in Minnesota and Wisconsin. Grasshoppers damaging vegetable crops in Oklahoma and Missouri and cotton in Oklahoma and Texas. (pp. 710, 711, 721, 725). ALFALFA WEEVIL remains a problem on alfalfa in several areas, especially in Hudson Valley of New York; reported damaging beans and other vegetable crops in Ohio. New county records reported in New Hampshire, New York and California. (pp. 712, 720). POTATO LEAFHOPPER nymphal populations remain high on alfalfa in Wisconsin and continue to increase in Delaware on several crops; caused heavy damage to beans in New Jersey and Maryland. (p. 714, 720).

PLUM CURCULIO populations high in Indiana and Wisconsin; occurrence of hot weather may result in some problems in Connecticut. (p. 716). Emergence of FRUIT FLIES (*Rhagoletis* spp.) rather heavy in some Eastern States. (p. 717). ALFALFA LOOPER damaging sugar beets in Wyoming and STRAWBERRY ROOT WEEVIL damaging this crop in Washington. (pp. 720, 721).

BOLL WEEVIL emergence heavy in South Carolina and activity increasing in southern Tennessee; infestations very heavy in several areas of Alabama and increasing in Madison Parish, Louisiana; overwintering weevils more numerous in Arkansas than in 1964. (p. 722). TOBACCO FLEA BEETLE populations approaching economic levels on tobacco in southeast Indiana; damage serious in many fields. (p. 725).

SOUTHERN PINE BEETLE active in epidemic proportions in areas of North Carolina (p. 726), and PINE SPITTLEBUG damaging in Minnesota and Wisconsin (p. 727). ELM LEAF BEETLE defoliation of elms continues over wide area of Nation. Outbreak of a LEAF-MINING WEEVIL (*Odontopus calceatus*) reported in western counties of West Virginia. (p. 727). TENT CATERPILLARS (*Malacosoma* spp.) reported active in some Lake States and some Western States. (p. 728). MOSQUITO populations high and annoying in Minnesota; conditions ideal for development of *Culex tarsalis* with record-breaking populations very likely this summer. Mosquitoes increasing in areas of Colorado and abundant over most of North Dakota; exceptionally abundant and annoying to livestock in Vermont. (pp. 730, 731). HORN FLY heavy on cattle in southeastern Oklahoma. (p. 731). JAPANESE BEETLE adults observed in South Carolina, Maryland, Delaware and Ohio. (p. 733).

DETECTION

The discovery of TOBACCO AND TOMATO CATERPILLAR (*Spodoptera litura* (F.)) (a noctuid previously in the genus *Prodenia* which is also known as Egyptian cotton-worm) in Hawaii was reported last week. Information on this important economic pest appeared in CEIR 7(20):385, May 17, 1957, and in the publication *Insects Not Known to Occur in the United States*, Vol. 7, p. 14, 1957. The presence of this insect nearer to the U.S. mainland should serve as a warning to agricultural officials to maintain a constant vigilance against its possible introduction. Aside from cotton, tobacco, tomatoes and corn, this insect is a general feeder attacking many other hosts.

(Continued on page 706).

New State records reported were PECAN LEAFROLL MITE (*Aceria caryae*) in Georgia, (p. 718), and PLUM WEB-SPINNING SAWFLY (*Neurotoma inconspicua*) in Texas (p. 734). New County records reported included: YELLOW-STRIPED ARMYWORM (*Prodenia ornithogalli*) in Lyon and Le Sueur Counties, Minnesota, (p. 707); a WEEVIL (*Cosmobaris americana*) in Yuba County, California, (p. 709); ALFALFA WEEVIL (*Hypera postica*) in Yuba County, California, Seneca County, New York, and Grafton County, New Hampshire, (p. 712); SPOTTED ALFALFA APHID (*Therioaphis maculata*) in Hamlin County, South Dakota, (p. 714); SMALLER EUROPEAN ELM BARK BEETLE (*Scolytus multistriatus*) in Mitchell County, Texas, (p. 727); HOLLYHOCK WEEVIL (*Apion longirostre*) in Butte and Colusa Counties, California, (p. 730); FACE FLY (*Musca autumnalis*) in Hardin County, Illinois, (p. 731); WHITE-FRINGED BEETLES (*Graphognathus* spp.) in Greene and Hale Counties, Alabama, and Benton County, Mississippi, (p. 733).

CORRECTIONS

See page 734.

SPECIAL REPORTS

Status of the Screw-worm in the Southwest. (p. 737).

Interceptions of Special Interest at U.S. Ports of Entry. (p. 738).

Cooperative Survey Entomologists. (p. 740).

Reports in this issue are week ending June 25 unless otherwise indicated.

WEATHER OF THE WEEK ENDING JUNE 28

HIGHLIGHTS: (1) Slightly warmer than last week over most of Nation. (2) Moderate to heavy showers over most of Great Plains. (3) Showers Northeast but more rain needed.

TEMPERATURE: Temperatures averaged slightly below normal over most of the Nation, although most areas were warmer than a week earlier. A small area from northeastern Virginia to eastern Massachusetts averaged more than 10° warmer than the previous week. Afternoon temperatures reached the 70's and 80's over much of the Northwest early in the week but remained in the 60's and 70's during the last few days. Temperatures in the 80's were common in the Northeast at the beginning of the week and near the end. Cooler weather prevailed during the middle of the period. Temperatures reached 90's most afternoons in the South. Sunday was the warmest day over most of the Nation. Ninety-degree temperatures occurred across the Southland from Arizona to the Mississippi River and northeastward across the central Great Plains to Lower Michigan.

PRECIPITATION: Only widely scattered, light showers fell over the Far West. Crop-damaging hail and strong winds accompanied some of the moderate to heavy showers in Nevada and Utah. A tornado occurred west of Salt Lake City. Spotty showers and locally heavy downpours fell over the Great Plains from South Dakota to Texas. Some spots in Kansas and Texas received more than 6 inches. Some of the rains produced local flash floods which covered fields and closed roads. Showers also fell over most of the eastern half of the Nation. Pennsylvania received the best showers in several weeks. The light showers Tuesday and Wednesday brought little relief from dryness in Ohio. New Jersey received light spotty showers on Thursday. The drought intensified in parts of New York and although the showers were adequate for sustaining crops in New England, all areas needed more rain. Scattered tornadoes occurred on several days over the Great Plains from North Dakota to Texas. (Summary supplied by U.S. Weather Bureau).

CEREAL AND FORAGE INSECTS

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - MICHIGAN - Larval feeding noted on approximately 10 percent of corn plants in 3 fields checked in Monroe County June 22; infestation heavy in Berrien County sweet corn before spraying. (Newman, Belter). ILLINOIS - Pupation underway in southern tip of State. (Ill. Ins. Rpt.). WISCONSIN - Feeding by first-stage larvae more common though seldom exceeding 12 percent; few feeding on tassels of sweet corn near Mazomanie. Blacklight trap collections indicate populations of spring-generation adults higher than normal. (Wis. Ins. Sur.). MINNESOTA - Emergence and egg laying underway in southern half of State. Egg counts low; average per 100 plants by district as follows: Southwest 4.4; west central 2.1, south central and central less than 1. Egg masses found on more advanced fields with taller plants. (Minn. Ins. Rpt.). NORTH DAKOTA - Pupation 44 percent at Cayuga (Sargent County), 40 percent at Walcott (Richland County) and 30 percent at Fargo (Cass County). Adults observed at Walcott and Fargo. (Frye, Thomasson). IOWA - Ten percent leaf feeding and 10 egg masses per 100 plants in Wapello County June 16; corn 30 inches extended height. No leaf feeding or egg masses on 35-inch corn in Benton County. Only tall field corn with 10 newly laid egg masses per 100 plants in Buchanan County; 5 percent of plants showed leaf feeding. In Wayne County, 20 percent leaf feeding observed June 15 on corn 25 inches extended height. At Ankeny, pupation 100 percent, 74 percent emergence and 22 egg masses per 100 plants. In Fremont County, leaf-feeding counts on 300 or more plants showed 61 percent feeding on 33-inch corn, 73 percent on 41-inch corn, 86 percent on 44-inch corn and 92 percent on 48-inch corn. Some treatments used. (Iowa Ins. Inf., June 21). MISSOURI - In northwest district, 5-100 percent of corn plants infested; larvae entering midribs of leaves. In southwest district, 1-2 third and fourth-stage larvae per plant found in unopened tassels or under leaf sheaths of 1-5 plants per 100; in west central district, 1-3 fifth-stage larvae in stalks of 20-30 plants per 100. First-generation moths emerging in Pemiscot County. (Keaster, Harrendorf, Jones). MARYLAND - Whorl and stalk infestations increasing on corn in all sections; ranged 1-25 percent on corn in Frederick and Worcester Counties. (U. Md., Ent. Dept.). NEW YORK - Larvae detected in only 2 percent of plants in untreated check rows of North Star sweet corn at Poughkeepsie; oldest larva in fourth instar by June 24. From cage stocked with about 90 borers, over 60 moths emerged by June 21. Some *Macrocentrus* spp. (braconids) emerged. Little more moth emergence expected. (N.Y. Wkly. Rpt., June 21). NEW JERSEY - Some adults still appearing in light traps; most of first-brood moth flight over. Continued protection necessary. (Ins.-Dis. Newsltr.). VERMONT - Controls recommended to prevent damage to corn. (MacCollom, June 21).

CORN EARWORM (*Heliothis zea*) - NEW JERSEY - Few larvae present in tassels, but no problem to ears at silking time anticipated. Few moths still flying; protection at silking necessary for few eggs that will be laid. (Ins.-Dis. Newsltr.). NEW YORK - First instars observed in tassels of sweet corn at Hurley in Hudson Valley June 15; fourth instar by June 21. (N.Y. Wkly. Rpt.). GEORGIA - Light to moderate on peanuts in Tift and Terrell Counties. (Morgan, Snow). ALABAMA - Considerable larval infestations present in localized fields west of Geneva, Geneva County. (Smith). MISSOURI - Late-stage larvae found in whorls of 1-3 plants per 100 in fields of corn in southwest. (Houser et al.). WISCONSIN - Few adults appearing in blacklight traps. Winter survival under proper conditions has been demonstrated in State. (Wis. Ins. Sur.).

ARMYWORM (*Pseudaletia unipuncta*) - MICHIGAN - High degree of parasitism and fungus disease adversely affecting larval field populations in southern counties. Thus, field problems and possibility of future problems lessened considerably since last report. (See CEIR 15(26):670). Natural enemies usually keep population low in State after early July. (Ruppel, Schroeder, Janes). DELAWARE - Blacklight trap collections indicate adults very numerous. (Burbutis, Woodall).

YELLOW-STRIPED ARMYWORM (*Prodenia ornithogalli*) - MINNESOTA - Light numbers found in corn in Lyon and Le Sueur Counties. (Dowdy). These are new county records. (PPC).

ARMYWORMS - IOWA - Caused considerable damage to corn next to rank brome in Scott County; ranged three-eighths to 1.25 inches long. Ranged 3-4 per 10 sweeps in brome in Benton, Linn, Buchanan and Delaware Counties. Parasitism by small wasp and fly apparent. (Iowa Ins. Inf., June 21). MINNESOTA - Light numbers found in field of alfalfa in Winona County. (Minn. Ins. Rpt.).

BLACK CUTWORM (Agrotis ipsilon) - WISCONSIN - Observations and reports indicate scattered infestations continued. Rains in at least one instance caused larvae to move nearer ground surface, allowing for better control. Feeding on leaf surface of 30-inch corn by half-grown larvae observed in one area. (Wis. Ins. Sur.).

CUTWORMS - NEW HAMPSHIRE - Crymodes devastator (glassy cutworm) and climbing cutworms damaged field corn at Walpole, Cheshire County. C. devastator completely destroyed 5 of 13 acres of mixed grasses (mostly timothy) at Walpole; larvae nearly full grown and ranged 5-11 per square foot. (Sutherland, June 18). NEW YORK - Contine damaging corn statewide, but most near pupation. (N.Y. Wkly. Rpt., June 21). MINNESOTA - Scattered reports of damage to corn received from southern third of State. Approximately 2 acres of corn destroyed in field in Freeborn County and replanted; damage also reported in Martin, Redwood, Cottonwood and Renville Counties. Reported damaging soybeans in Redwood County field. Several species involved, but most reports indicate Agrotis ipsilon (black cutworm) predominates. (Minn. Ins. Rpt.). IOWA - A. ipsilon and Feltia subgothica (dingy cutworm) collected in treated field in Mitchell County. Cutworm infestation severe in corn following soybeans at Grinnell; damaged 18-inch corn in Ringgold County. (Iowa Ins. Inf., June 21). GEORGIA - Light feeding by Feltia subterranea (granulate cutworm) evident on foliage of peanuts throughout southern part of State. (Johnson).

STALK BORER (Papaipema nebris) - IOWA - Invading first rows of corn next to lush brome. (Iowa Ins. Inf., June 21). MARYLAND - Light in field corn at Public Landing, Worcester County. (U. Md., Ent. Dept.).

SOUTHERN CORNSTALK BORER (Diatraea crambidoides) - MARYLAND - Light to moderate in more advanced field corn in Worcester County. (U. Md., Ent. Dept.).

SOUTHWESTERN CORN BORER (Zeadiatraea grandiosella) - ARKANSAS - Moths from first-generation larvae about 50 percent emerged in Desha County. (Ark. Ins. Sur.).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - MASSACHUSETTS - Small numbers found damaging corn in several fields in western area; however, more abundant than usual. (Wave, June 19).

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) - MISSOURI - Reported damaging corn in isolated fields in northwest and southeast districts; extent of damage not determined. (Houser et al.). IOWA - Averaged 1 adult per 10 corn plants in eastern area; leaf feeding light. (Iowa Ins. Inf., June 21). WISCONSIN - Feeding on leaves of younger field corn in many areas; easily found in most alfalfa. (Wis. Ins. Sur.). SOUTH DAKOTA - Adult observed in field of wheat near Barnard, Brown County. (Jones).

CORN ROOTWORMS (Diabrotica spp.) - MINNESOTA - Eggs hatching and first-stage larvae found in southwest, south central and central districts. Growers should check corn for larvae and feeding damage during next 2 weeks; average of 10 larvae per plant or 50 percent of roots showing damage indicate postemergence treatment warranted. (Minn. Ins. Rpt.). IOWA - Most D. longicornis (northern corn rootworm) larvae very small at Ottumwa June 16; 10 percent in third and 90 percent in second instars. No hatching observed in Benton County field where D. virgifera (western corn rootworm) numerous in August 1964. Single second-stage D. longicornis larva collected June 16 in Butler County and 2 second-stage larvae collected June 15 in Decatur County. (Iowa Ins. Inf., June 21). OHIO - Population of 13 D. longicornis larvae per 10 plants noted on untreated corn near Hoytville, Wood County. (Davidson).

CEREAL LEAF BEETLE (Oulema melanopa) - MICHIGAN - Widespread emergence and activity of summer adults underway. Approximately 90 percent of field population in Berrien County wheat now adults; first adults from research plots of oats emerged June 17. Field populations in oats approximately 50 percent adults, 50 percent pupae; very few eggs and larvae remain. (Ruppel, Ring, Lovitt). INDIANA - In one area located in St. Joseph and La Porte Counties, egg counts on June 14 revealed late surge of deposition on oats by spring adults; average 3 times higher than earlier samples; 93 eggs per 4 feet of row compared with 30 per 4 feet of row. Little egg deposition noted since that date and nearly all spring adults dead. Large numbers of summer adults emerged from wheat June 20; still increasing. In oats, 50 percent of larvae pupated and peak emergence expected July 1-5. (Wilson).

DESERT CORN FLEA BEETLE (Chaetocnema ectypa) - ARIZONA - Population of 200 per 100 sweeps found in sorghum in Gila Valley of Yuma County. (Ariz. Coop. Sur.).

SEED-CORN BEETLE (Agonoderus lecontei) - NORTH DAKOTA - Severe infestation observed in newly planted field corn near Tower City, Cass County. Hylemya platura (seed-corn maggot) and Melanotus sp. (a wireworm) also present in field but in small numbers. (Dogger).

SUGARCANE BEETLE (Euetheola rugiceps) - ALABAMA - Scattered adult populations damaging 10-acre plot of young corn in Washington County. (Hoomes).

ROSE CHAFER (Macrodactylus subspinosus) - OHIO - Reported infesting field corn near Maumee, Lucas County. Usually not of economic importance on this crop. (Krabeck, Kittle, Blair).

A WEEVIL (Cosmobaris americana) - CALIFORNIA - Adults light in field of oats in Marysville, Yuba County. This is first record for Yuba County. (Cal. Coop. Rpt.).

CORN LEAF APHID (Rhopalosiphum maidis) - INDIANA - Remains light on corn in Harrison and Floyd Counties; of plants checked, 15-28 were infested. (Saugstad). MISSOURI - Light, 10-50 per plant, on early planted corn and grain sorghum in southwest district. Lady beetles plentiful in fields. (Houser et al.). UTAH - Common on spring barley throughout Davis County. (Rogers, Knowlton, June 18). IDAHO - Light, spotted infestation reported in field of barley at Wilder, Canyon County; no predators observed. (Bechtolt, June 11). NORTH DAKOTA - Trace numbers of R. maidis and R. fitchii (apple grain aphid) present in field of barley near Hankinson, Richland County. (Frye, Thomasson).

ENGLISH GRAIN APHID (Macrosiphum avenae) - MINNESOTA - Average counts per 100 sweeps, by district, as follows: South central 20, southeast 60, west central 44, southwest 33, trace in northwest. (Minn. Ins. Rpt.). NORTH DAKOTA - Trace numbers present in most small grain in eastern half of State. (Frye, Thomasson). SOUTH DAKOTA - Small numbers taken in samplings of wheat near Crocker, Clark County, and near Pierpont, Day County. (Jones).

CORN ROOT APHID (Anuraphis maidiradicis) - INDIANA - Ranged 5-25 per root system on 44 percent of corn plants checked in Harrison and Floyd County areas. (Saugstad).

GREENBUG (Schizaphis graminum) - MINNESOTA - Very low in small grains in all districts. (Minn. Ins. Rpt.). NORTH DAKOTA - Averaged 2 per sweep in field of barley near Hankinson, Richland County. (Frye, Thomasson).

CHINCH BUG (Blissus leucopterus) - ILLINOIS - Populations vary zero to several hundred per linear foot in wheat in eastern area. No migration observed or reported. (Ill. Ins. Rpt.). INDIANA - First infestation on corn of season reported in Backford County. (Middleton). OHIO - Infesting field corn in Darke and Mercer Counties; nymphs abundant at bases of stalks in Mercer County. Reported infesting Sudan grass in Pickaway County. (DeBrosse et al.). OKLAHOMA - Moderate infestations reported in grain sorghum in Grady County. (Okla. Coop. Sur.).

SIX-SPOTTED LEAFHOPPER (Macrosteles fascifrons) - MINNESOTA - Adults ranged 20-200 per 100 sweeps in all districts; varied greatly from field to field. Egg hatch and nymphs evident in southern counties. (Minn. Ins. Rpt.). NORTH DAKOTA - Trace numbers observed in small grain and flax in most eastern areas. (Frye, Thomasson).

HESSIAN FLY (Mayetiola destructor) - MARYLAND - Heavily damaged wheat in Prince Georges County field. (U. Md., Ent. Dept.).

WHEAT STEM MAGGOT (Meromyza americana) - SOUTH DAKOTA - Damaged 7 percent of heads of wheat near Gann Valley, Buffalo County. Light damage of 2 percent of heads noted in Brule County and in northern Charles Mix County. (Novotny). DELAWARE - Infesting barley in Kent County. (MacCreary).

SORGHUM MIDGE (Contarinia sorghicola) - TEXAS - Emergence from overwintering plots in south plains area increased; 3 emerged from overwintering plots established in November 1963, but no great emergence of these second-year, diapausing larvae yet occurred; therefore, will probably not greatly influence populations. Nine emerged from head samples of Johnson grass collected in Floyd County; this about 2 weeks earlier than in 1964. (Daniels, Harding, Rummel).

GRASSHOPPERS - IDAHO - Second and third instars of several species moving into cropland-residential property areas from adjoining dry rangelands in Adams, Ada, Canyon, Twin Falls and Payette Counties. (Portman et al.). UTAH - Nymphs appearing generally throughout Box Elder County; especially numerous in Snowville area; numerous in Davis County, especially in foothill areas. (Knowlton, June 18). COLORADO - Numbers very low on rangeland in Livermore and Buckeye areas of Larimer County. (Wellso, Ferkovich). NEW MEXICO - Counts per square yard during period June 14-18 as follows: Cordillacris occipitalis (third instar to adult) and Melanoplus occidentalis (first and second instars) averaged 2 in area 9 miles south of Kenna, Chaves County; C. occipitalis (third instar to adult), Aulocara ellioti (second to fourth instars) and M. occidentalis (first to third instars) 2 in area 2 miles south of Dora, Roosevelt County; Opeia obscura (mostly adults) 2 in area 15 miles south of Broadview, Curry County; C. occipitalis (fourth instar to adult), M. occidentalis (adults) and A. ellioti (fourth instar to adult) less than 1 to 2 in area north of San Jon in Porter and Logan areas of Quay County; Phlibostroma quadrimaculatum (fourth instar to adult), Metator pardalinus (adults) and A. ellioti (fourth instar to adult) less than 1 to 5 in McCoy ranch area of Quay County. Counts of less than 1 per square yard found in areas checked in Harding and De Baca Counties. (Seaton). Grasshopper nymphs averaged 2-8 per 25 sweeps in alfalfa in Socorro and Torrance Counties. (Mathews). OKLAHOMA - Populations threatening on approximately 40,000 acres of grassland and cropland in Carter, Murray and Garvin Counties; ranged 10-50 per square yard. Serious damage to alfalfa and Sudan grass evident in valley northwest of Springer, Carter County. Melanoplus bivittatus (two-striped grasshopper), M. packardii (Packard grasshopper), M. occidentalis and Hesperotettix speciosus dominant species; ranged third instar to adult. In southern edge of McIntosh County, migration of M. sanguinipes (migratory grasshopper) adults observed along U.S. Highway 69 and Missouri, Kansas and Texas Railroad; averaged 10 per square yard on 2-mile strip along highway and railroad rights-of-way. In Greer, Kiowa, Jackson and Tillman Counties, rangeland counts ranged 5-15 per square yard; Phlibostroma quadrimaculatum, Hesperotettix viridis, M. bivittatus and Boopedon nubilum dominant species. Grasshoppers ranged 8-10 per square yard on rangeland at locations in Woodward County and 10-30 per square yard in Roger Mills County; P. quadrimaculatum dominant species. Two bands of Dissosteira longipennis (High Plains grasshopper) noted; one each in Beckham and Harmon Counties. Unspecified grasshoppers reported moderate to heavy on rangeland and in alfalfa in Stephens, Bryan, Greer and Delaware Counties; ranged 10-15 per square yard on rangeland in Tillman County. (Okla. Coop. Sur.). KANSAS - Wet weather has been unfavorable for grasshopper hatch, which could be complete now. Many may have been flooded down river. (Gates, Brooks, June 22). MISSOURI - Melanoplus spp. numbers apparently decreasing in crops and pastures in southwest district, although few reports received concerning damage to new growth of freshly cut alfalfa and to home gardens in area. Ranged 3-15 per square yard in fence

rows and field margins and 0.3 in crops and pastures. (Houser et al.). NORTH DAKOTA - Nymphs ranged 1-2 per square yard in margins and 0-1 per square yard within fields in Richland, Sargent, Dickey, McIntosh and Burleigh Counties. M. bivittatus, M. sanguinipes and M. packardii dominant species. Most in first and second instars; few third and fourth instars found. (Scholl). Nymphs ranged 1-3 per square yard in Bottineau, Pierce, McHenry, Golden Valley, McKenzie, Williams, Divide, Burke and Renville Counties. M. confusus, M. bivittatus and Camnula pellucida (clear-winged grasshopper) dominant species. (Cushing). SOUTH DAKOTA - Grasshopper populations still generally light in all areas checked, except on rangeland in Elk Mountain area, western Custer County; counts generally 6-7 per square yard, but as many as 20 per square yard observed. Ageneotettix deorum dominant species. Grasshoppers mostly first to fourth instars. Grasshopper numbers spotty and light on cropland in Pennington, Lawrence, Butte and Meade Counties; ranged 8-10 per square yard. (Zimmerman). Grasshopper populations remain very low in central northeastern part of State; usually less than 2 per square yard. Species include M. bivittatus and M. sanguinipes. (Burge, Novotny, Jones). MINNESOTA - Weather favorable for egg hatch and survival of first-stage nymphs. Increasing numbers of M. femurrubrum (red-legged grasshopper) eggs hatching; segmented and fully formed eggs general in most areas. Roadside and field margin counts of second and third-stage nymphs scattered but rather high in Fillmore, Dodge, Lyon, Yellow Medicine, Scott and Lac qui Parle Counties; averaged 40 per square yard in field of oats seeded down with alfalfa in Lyon County and extended 2-3 rods into field, with damage very apparent. M. differentialis (differential grasshopper) nymphs averaged 11 per square yard along roadsides in Lac qui Parle County. Counts very low in west central and northwest districts. Grasshopper infestations will be scattered and localized this season. Farmers should check fields for young nymphs; early treatment advisable. (Minn. Ins. Rpt.). WISCONSIN - Nymphal population increased, particularly in recently cut alfalfa. Averaged approximately 15 per sweep in one Rock County field; primarily second and third instars of M. femurrubrum. Some feeding on adjacent soybeans noted. (Wis. Ins. Sur.). ILLINOIS - Melanoplus spp. nymphs varied 10-260 (averaged about 150) per 100 sweeps in clover and alfalfa in southern half of State. Occasional M. sanguinipes adult also observed. (Ill. Ins. Rpt.). INDIANA - Nymphs of complex of species generally averaged 2-3 per sweep in southern areas; averaged 6 per sweep in some localized areas of southeastern sector. (Huber, Saugstad, White). MARYLAND - Melanoplus spp. nymphs increasing in and around pastures and field crops in Howard, Queen Annes and Wicomico Counties. (U. Md., Ent. Dept.).

SOD WEBWORMS - NEW JERSEY - Adults flying in southern counties. (Ins.-Dis. Newsltr.). IOWA - Damaging corn in field planted to bluegrass for 4 years in Fayette County. (Iowa Ins. Inf., June 21). UTAH - Moths numerous about many lawns in Salt Lake County and at Ogden, Weber County. (Knowlton, Burningham, June 18).

AN ANTHRICID BEETLE (Notoxus sp.) - CALIFORNIA - Adults heavy on pasture grass locally in Fresno, Fresno County. (Cal. Coop. Rpt.).

GROUND MEALYBUG (Rhizoecus falcifer) - CALIFORNIA - Heavy locally on lawn grass in Watsonville, Santa Cruz County. (Cal. Coop. Rpt.).

CHINCH BUGS - CONNECTICUT - Feeding on lawns in many parts of State. (Savos).

A SPITTLEBUG (Prosapia bicincta) - GEORGIA - Total of 1,489 taken in light trap in Tift County compared with 6,609 previous week. (Beck, Byars). SOUTH CAROLINA - Adults, probably this species, numerous on centipede grass lawns in Horry County. (Nettles et al., June 22). NORTH CAROLINA - Probably this species damaging centipede grass lawn in Lenoir County. Det. by D. A. Mount. (Koonce).

LEAFHOPPERS - FLORIDA - Following species collected in 25 sweeps of ungrazed Para grass at Belle Glade, Palm Beach County, June 21: Draeculacephala portola portola, 7 adults, 2 nymphs; Exitianus exitiosus, 11 adults, 1 nymphs; Deltoccephalus flavicosta, 12 adults; Graminella nigrifrons, 73 adults; Balclutha sp., 7 adults. (Mead).

DELPHACID PLANTHOPPERS - FLORIDA - Following species collected in 25 sweeps of ungrazed Para grass at Belle Glade, Palm Beach County, on June 21: Delphacodes propinqua, 20 adults; D. puella, 1 adult; Sogata furcifera complex, 202 adults, approximately 35 nymphs. (Mead).

ALFALFA WEEVIL (Hypera postica) - CALIFORNIA - Adults collected for first time in Yuba County. (Cal. Coop. Rpt.). NEVADA - Larvae and damage heavy in alfalfa in Lamoille, Elko County; several thousand acres treated; some fields being cut early. (Earnist). IDAHO - Larval damage becoming apparent in Saint Anthony area, Fremont County; plants just budding. (Garner, June 15). General throughout Twin Falls County. (Youtz). WYOMING - Heavy damage appearing on uncut alfalfa in Big Horn Basin. Heavy larval numbers present in first crop and in regrowth and crowns of second crop. Larvae ranged 400-700 per 100 sweeps in alfalfa in Big Horn, Washakie and Hot Springs Counties. Larval populations extremely large in Shell area, Big Horn County; ranged 6,500-10,000 (averaged 8,250) per 100 sweeps on standing first crop alfalfa. Pupation underway in Hot Springs County. Harvesting of first crop 80 percent complete in Big Horn Basin area. (Marks). UTAH - Damage becoming conspicuous in Davis County. (Rogers, Knowlton, June 18). COLORADO - Pupating in alfalfa in Weld and Larimer Counties. Parasitism by Bathyplectes sp. evident but variable; as high as 90 percent parasitism recorded. Lady beetles appear to be numerous; Hippodamia spp. and Epilachna sp. noted. Epicauta fabricii (ash-gray blister beetle) also observed. (Simpson). NEW MEXICO - Counts per 25 sweeps in alfalfa ranged 35-40 larvae and averaged 2 adults near Pojoaque, Santa Fe County, and 40-55 larvae and 1 adult near Chimayo, Rio Arriba County. Foliage damage very noticeable. (Heninger). NORTH DAKOTA - Reported in CEIR 15 (25):631 as averaging 3 per 10 sweeps on alfalfa between Golva, Golden Valley County, and Marmarth, Slope County. As collections were made in both counties, Golden Valley constitutes new county record. (Frye). SOUTH DAKOTA - Small numbers present in Harding County. Larvae averaged 50 per 100 sweeps in Camp Crook area with damage light to alfalfa; no damage evident in fields west of Reva where larvae averaged 5 per 100 sweeps and east of Ralph with counts of 3 larvae per 100 sweeps. Larvae ranged second to fourth stages in all areas sampled. (Jones). ILLINOIS - Adults vary 5-32 (average 17.7) and larvae 2-5 (average 3) per 100 sweeps in second-cutting alfalfa in Hardin County. Single adult collected in 210 sweeps in Macoupin County; this is a new county record. (Ill. Ins. Rpt.). INDIANA - Few adults still found in alfalfa in south central and southwest areas; averaged 1-2 per 10 sweeps in some fields. (Saugstad, White). OHIO - Damaging soybean cotyledons in Union County. (Cronin, Wilson, Holdsworth). MICHIGAN - Surveys during May and June failed to yield larval or adult specimens from alfalfa in Monroe and Lenawee Counties. It is highly likely, however, migration into southeast counties may occur during late summer of 1965 or during the 1966 season. (Guyer et al.). NEW HAMPSHIRE - Found on alfalfa in Lebanon, Grafton County, June 23. This is a new county record. Larvae infesting 30 percent of terminals in field of alfalfa at Walpole, Cheshire County. (Sutherland, June 18). VERMONT - Continues to damage alfalfa in areas of Bennington and Rutland Counties; pupation underway, few adults present. (MacCollom, June 21). RHODE ISLAND - Feeding apparent in some fields of alfalfa in Jamestown and in Newport County. (King, Peabody). NEW YORK - Continues to ravage alfalfa in lower Hudson Valley where controls not used. Over 1,200 larvae per 25 sweeps not uncommon. Bathyplectes cucurlionis (an ichneumon) taken at release site in Ghent area; 5-10 percent of H. postica larvae parasitized. H. postica light throughout Tompkins, Seneca, Cortland, Schuyler, Tioga and Broome Counties. Some fields in Tioga and Broome Counties severely injured. Seneca is a new county record; see also CEIR 14(40): 1106 for 1964 distribution. Larvae, pupae and adults taken in Delaware County; severe damage noted in southeastern part of county. Pupation continues at increasing rate in Ulster County; earliest pupation producing adults. (N.Y. Wkly. Rpt., June 21). NEW JERSEY - Small larvae still reported at some locations; many adults emerging at others. Destruction of alfalfa could be ending for most part; however, where many adults just emerged or larvae present in fair numbers, controls should be applied to save second crop. Late outbreaks have occurred, but are rare. (Ins.-Dis. Newsltr.). MARYLAND - Averaged 11 larvae per sweep on second growth alfalfa near Frederick, Frederick County. (U. Md., Ent. Dept.). ALABAMA - Second-generation adults causing some damage to alfalfa in Limestone County. (Agee).

CLOVER LEAF WEEVIL (Hypera punctata) - ILLINOIS - Adults varied 0-20 (average 5.4) per 100 sweeps in clover and alfalfa in southern part of State. (Ill. Ins. Rpt.). INDIANA - Averaged 4 adults per 10 sweeps on red clover in southernmost sections. (Huber, Saugstad).

LESSER CLOVER LEAF WEEVIL (Hypera nigrirostris) - ILLINOIS - Adults varied 0-20 per 100 sweeps in clover and alfalfa in southern half of State. (Ill. Ins. Rpt.).

CLOVER HEAD WEEVIL (Hypera meles) - OHIO - Found on soybeans in Auglaize County; apparently moved from pasture nearby. (Brown, Blair).

WHITE-FRINGED BEETLE (Graphognathus spp.) - ALABAMA - Adults medium in field of peanuts south of Hartford, Geneva County. (Smith).

BEAN LEAF BEETLE (Cerotoma trifurcata) - MARYLAND - Adults causing light to moderate foliage injury on soybeans in Worcester and Wicomico Counties. (U. Md., Ent. Dept.). MISSOURI - Ranged 1-7 (average 2) per yard of row on soybeans in southwest district. (Houser et al.). ARKANSAS - Numbers still low but increasing in soybeans checked in northeast and central areas, (Ark. Ins. Sur.).

COLASPIS (Colaspis spp.) - MISSOURI - Adults ranged 1-5 per yard of row in soybeans in southwest district. (Houser et al.). ILLINOIS - Adults varied 0-5 per 100 sweeps in clover and alfalfa in southern half of State. (Ill. Ins. Rpt.). INDIANA - Adults common on alfalfa and corn in southern half of State. One report of damage to corn by larvae received from Owen County. (Huber, Lehker, White).

A SPOTTED CUCUMBER BEETLE (Diabrotica undecimpunctata tenella) - NEW MEXICO - Adults ranged 0-5 per 25 sweeps in alfalfa in Socorro County (Mathews) and 1-4 in Dona Ana County (Garcia, Gomez).

MEXICAN BEAN BEETLE (Epilachna varivestis) - MARYLAND - Adults light to moderate on soybeans in Wicomico and Worcester Counties. (U. Md., Ent. Dept.).

BLISTER BEETLES (Epicauta spp.) - ILLINOIS - Occasional specimens of E. pennsylvanica (black blister beetle), E. fabricii (ash-gray blister beetle) and Epicauta sp. observed in clover and alfalfa in southern half of State. (Ill. Ins. Rpt.). SOUTH DAKOTA - E. fabricii present in all alfalfa sampled past 2 weeks. Counts per 100 sweeps by county as follows: McCook 40, Ziebach 40, Dewey 25, Spink 30, Campbell 48, Brown 40. (Jones). NEW MEXICO - Probably Epicauta sp. averaged 2-3 adults per 25 sweeps in alfalfa near Pojoaque, Santa Fe County. (Heninger).

GREEN CLOVERWORM (Plathypena scabra) - ILLINOIS - Larvae varied 10-60 (average about 25) per 100 sweeps in clover and alfalfa and 10-20 per 100 sweeps in soybeans in southern half of State. (Ill. Ins. Rpt.). MICHIGAN - No adults taken in light traps to June 25; earliest records for State are first week of July. Because of problems on beans in 1964, species to be watched. (Newman). NEW JERSEY - Present in alfalfa for some time. Expected to move to beans at first cutting of alfalfa. (Ins.-Dis. Newsltr.).

ALFALFA CATERPILLAR (Colias eurytheme) - NEW MEXICO - Averaged 1-3 first and second-stage larvae per 25 sweeps of alfalfa near Pojoaque, Santa Fe County. (Heninger).

ALFALFA LOOPER (Autographa californica) - WYOMING - Larvae ranged 75-90 per 100 sweeps of alfalfa in Washakie and Hot Springs Counties. (Marks).

WEBWORMS (Loxostege spp.) - OKLAHOMA - Reported moderate in alfalfa in McCurtain County. (Okla. Coop. Sur.). MISSOURI - L. similalis (garden webworm) larvae averaged less than 10 per 100 sweeps in alfalfa in southwest district. Adults numerous in few fields (2-4 per square yard); lighter in most fields in area. (Houser et al.).

PEA APHID (*Acyrtosiphon pisum*) - WASHINGTON - All stages noted on forage and seed alfalfa; damage not apparent except one heavily infested field. Counts per sweep, as follows: 1-2 at Mabton, Yakima County; 13 at Pasco, Benton County; 1-110 (average 30) at Walla Walla, Walla Walla County. (Halfhill, June 21). IDAHO - General in alfalfa in Twin Falls County but not in damaging numbers. (Youtz). Averaged 2-3 per sweep in Canyon County; lady beetle adults and larvae averaged 1-2 per sweep in these fields. (Bechtolt). WYOMING - Adults and nymphs ranged 600-1,350 (averaged 875) per 100 sweeps in alfalfa in Big Horn, Washakie and Hot Springs Counties. (Marks). NORTH DAKOTA - Some buildup in alfalfa and clover in southeast noted; averaged 30 per sweep in some fields. (Frye, Thomasson). SOUTH DAKOTA - Populations still relatively high in alfalfa in various areas. Samplings per 100 sweeps showed over 2,000 at Camp Crook, Harding County; other counts ranged from 500 to lows of 50 at 13 locations in 10 counties. Lady beetles present at all but one location. (Jones). MINNESOTA - Average counts per 100 sweeps, by district, as follows: South central 92, southeast 110, southwest 209, west central 183, northwest 1,400. (Minn. Ins. Rpt.). WISCONSIN - Slight increase in numbers noted in regrowth alfalfa and peas; counts low on both crops. (Wis. Ins. Sur.). MICHIGAN - Very light in southeast area alfalfa. (Dowdy).

INDIANA - Light throughout southern area; averaged 2-3 per sweep. This represents noticeable increase over past 2 weeks. (Huber, Saugstad, White). ILLINOIS - Populations very low; ranged 5-4,800 (average about 700) per 100 sweeps in clover and alfalfa in southern half of State. (Ill. Ins. Rpt.). MISSOURI - Ranged 10-50 per 10 sweeps in alfalfa in southwest district. (Houser et al.). OKLAHOMA - Ranged 6-50 per 10 sweeps in most alfalfa checked in Roger Mills, Beckham, Dewey, Blaine, Ellis and Major Counties; averaged 380 per 10 sweeps in one Roger Mills County field. (Okla. Coop. Sur.). NEW MEXICO - Mostly light in alfalfa checked near Socorro, Socorro County; Moriarty, Torrance County; Tularosa, Otero County; and throughout Dona Ana County. (Mathews et al.). Light to moderate in alfalfa at Pojoaque, Santa Fe County, and at Chimayo, Rio Arriba County. (Heninger). ARIZONA - Averaged approximately 300 per 100 sweeps in alfalfa in Gila Valley of Yuma County. (Ariz. Coop. Sur.).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - ILLINOIS - Varied 0-5 per 100 sweeps in southern area. (Ill. Ins. Rpt.). WISCONSIN - Populations increased slightly. Averaged 10 per sweep at location near Brodhead, compared with 6 per sweep previous week; averaged 10 per sweep at another location compared with 4 per sweep previous week. Noticeable increase observed in regrowth alfalfa near Spring Green where populations of *T. maculata* and *T. riehmi* (sweetclover aphid) averaged about 30 per sweep near field margin. Some yellow-flowered sweetclover intermixed. (Wis. Ins. Sur.). SOUTH DAKOTA - Recorded for first time from Hamlin County near Lake Norden. Ranged 2-4 per 100 sweeps in alfalfa near Crocker and Naples in Clark County. (Jones). OKLAHOMA - Light in most alfalfa checked in Roger Mills, Beckham, Custer, Dewey, Blaine, Ellis and Major Counties. Ranged 0-22 per 10 sweeps in most fields and as high as 60 per 10 sweeps in Roger Mills County. (Okla. Coop. Sur.).

POTATO LEAFHOPPER (*Empoasca fabae*) - MINNESOTA - Counts per 100 sweeps by district averaged as follows: South central 24, southeast 30, central 85; trace in west central, southwest and northwest. Nymphs appearing in southern half of State. (Minn. Ins. Rpt.). WISCONSIN - High nymphal populations persist on alfalfa in scattered fields; adults becoming more common. (Wis. Ins. Sur.). ILLINOIS - Adults varied 40-360 and nymphs 0-40 per 100 sweeps in alfalfa and adults 160-220 per 100 sweeps in soybeans in southern part of State. (Ill. Ins. Rpt.). INDIANA - Adults ranged 3-10 (average 6) per sweep in alfalfa in southeast and east central areas. (Huber). Averaged 2 adults per sweep in Floyd and Harrison County areas. (Saugstad). MARYLAND - Ranged 0-4 per sweep, with some apparent injury, on alfalfa in Frederick County. (U. Md., Ent. Dept.). DELAWARE - Continues to increase in most areas on many crops, including soybeans, alfalfa and clover. (Burbutis, Woodall).

THREE-CORNERED ALFALFA HOPPER (*Spissistilus festinus*) - ARIZONA - Considerable increase noticeable in 2 fields of alfalfa in Graham County; also increased in Yuma and Maricopa Counties. (Ariz. Coop. Sur.).

ALFALFA PLANT BUG (Adelphocoris lineolatus) - SOUTH DAKOTA - Large numbers of adults and nymphs observed in alfalfa sampled. Counts per 100 sweeps by county as follows: Perkins 600, Faulk 50-200, Walworth 50, Campbell 120, Brown 50-150, Clark 60, Hamlin 30. (Jones). MICHIGAN - Adults averaged 2 per sweep in alfalfa in several southeast area fields. (Newman). INDIANA - Nymphs averaged 3 per 5 sweeps of alfalfa in southern quarter of State. (Huber, White). NEW YORK - Very common in sweepings on alfalfa throughout State. (N.Y. Wkly. Rpt., June 21).

TARNISHED PLANT BUG (Lygus lineolaris) - NEW MEXICO - Adults ranged 6-10 per 25 sweeps in alfalfa checked near Tularosa, Otero County, (Mathews), and 3 per 25 sweeps in 2 fields in southern Dona Ana County. (Gomez, Garcia). OKLAHOMA - Ranged from less than 1 to 10 per 10 sweeps in alfalfa in northwest and west central areas. Averaged 12 per 10 sweeps in Payne County. (Okla. Coop. Sur.). INDIANA - Nymphs ranged 1-5 per sweep in alfalfa in southern quarter of State. (Huber, White).

MEADOW PLANT BUG (Leptopterna dolabratus) - RHODE ISLAND - Very heavy populations damaged timothy in Cranston and Smithfield, Providence County. (King, Mathewson).

LYGUS BUGS (Lygus spp.) - ARIZONA - Continue heavy on seed alfalfa. Increased in hay alfalfa with counts of 700 adults and nymphs per 100 sweeps noted. Heavy in Graham, Yuma, Pinal, Maricopa and Greenlee Counties. (Ariz. Coop. Sur.). NEW MEXICO - Counts of adults and nymphs per 25 sweeps in alfalfa as follows: 20-40 near Tularosa, Otero County, (Mathews); 12-20 near Deming, Luna County, (Campbell); 5-6 near Carlsbad, Eddy County, (Kloepfer); 14-30 in Dona Ana County (Gomez, Garcia). Ranged 2-8 per 25 sweeps in barley near Socorro, Socorro County and at Moriarty and Estancia, Torrance County. (Mathews). WYOMING - Adults and nymphs ranged 85-164 (averaged 110) per 100 sweeps of alfalfa in Big Horn, Washakie and Hot Springs Counties. (Marks).

FLEAHOPPERS - NEW MEXICO - Abundant in alfalfa in southern Dona Ana County; averaged about 1 adult per sweep in most fields checked. (Garcia, Gomez). ARIZONA - Light to medium populations of Spanogonicus albofasciatus noted in alfalfa in Graham County; ranged 30-70 per 100 sweeps. (Ariz. Coop. Sur.).

GREEN STINK BUG (Acrosternum hilare) - ARKANSAS - Averaged 2 per 30 feet of row on soybeans in field adjacent to timber in Conway County; none found in fields checked in northeast. (Ark. Ins. Sur.).

MEADOW SPITTLEBUG (Philaenus spumarius) - MARYLAND - Adults ranged 0-4 per sweep on alfalfa checked in Frederick County. (U. Md., Ent. Dept.). MICHIGAN - Averaged 3.5 adults per sweep in alfalfa in Monroe and Lenawee Counties. (Newman). INDIANA - Adults ranged from 3 per 10 sweeps to 4 per sweep in southern half of State; heavier populations present in eastern sections. (Huber, Saugstad, White). IOWA - Nymphs half to full grown in alfalfa and red clover; ranged 2-3 adults per sweep and 1 spittle mass per square foot in Benton, Buchanan, Delaware and Linn Counties June 17. (Iowa Ins. Inf.).

THRIPS - DELAWARE - Averaged 4-5 per leaf in several large fields of soybeans in Kent and Sussex Counties. Several species present. (Burbutis, Woodall). MARYLAND - Continue prevalent on young corn and soybeans in all sections. (U. Md., Ent. Dept.). OHIO - Damage to corn leaves evident near Georgetown, Brown County. (Wells, Blair). GEORGIA - Light on peanuts in southern area. (Johnson). NEW MEXICO - Light to very light in alfalfa in Dona Ana and Luna Counties. (Campbell, Mathews). ARIZONA - Chirothrips sp. present on Bermuda grass in Yuma County. (Ariz. Coop. Sur.).

FRUIT INSECTS

CODLING MOTH (Carpocapsa pomonella) - VERMONT - Egg laying started with advent of warm nighttime temperatures. (MacCollom, June 21). NEW YORK - Flights light in eastern area. Emergence and hatching increased; 38 percent of larvae in 1964

seeded cages emerged in Monroe County. (N.Y. Wkly. Rpt., June 21). MISSOURI - Second brood expected soon. (Wkly. Rpt. Fr. Grs., June 23). ARIZONA - Appearing on apples in parts of State. (Ariz. Coop. Sur.). CALIFORNIA - Medium in plum and pear fruit in Rocklin, Placer County. (Cal. Coop. Rpt.).

ORIENTAL FRUIT MOTH (Grapholitha molesta) - CONNECTICUT - Few damaged terminals evident in Glastonbury and New Haven. Abundance very low for past 5 years. (Savos, June 23). NEW YORK - First brood killed number of peach terminals in orchard in Niagara County. (N.Y. Wkly. Rpt., June 21). COLORADO - Adult emergence in peach orchards in Mesa County reached peak June 19. (Quist, Bulla).

PEACH TREE BORER (Sanninoidea exitiosa) - MISSOURI - Controls urged. (Wkly. Rpt. Fr. Grs., June 23). COLORADO - Pupating in peach orchards in Mesa County. (Bulla).

LESSER PEACH TREE BORER (Synanthedon pictipes) - MISSOURI - Controls urged in south-east section to prevent injury next season. (Wkly. Rpt. Fr. Grs., June 23).

CHERRY FRUITWORM (Grapholitha packardii) - WISCONSIN - First adults in blacklight trap in Door County June 14. Counts low. (Wis. Ins. Sur.).

OBLIQUE-BANDED LEAF ROLLER (Archips rosaceanus) - NEW YORK - Large numbers of adults appearing in Carpocapsa pomonella (codling moth) bait traps throughout eastern area. (N.Y. Wkly. Rpt., June 21).

FRUIT-TREE LEAF ROLLER (Archips argyrospilus) - WISCONSIN - First adults in blacklight trap in Door County June 18. First high count June 21. (Wis. Ins. Sur.).

EYE-SPOTTED BUD MOTH (Spilonota ocellana) - WISCONSIN - Adults emerging in Door County. (Wis. Ins. Sur.).

PLUM CURCULIO (Conotrachelus nenuphar) - CONNECTICUT - Adults still active; one found in Woodstock June 21, more noted June 21 and 22. Predicted hot weather may result in problems for some growers, especially in blocks with history of heavy infestations. Pest appears to be following pattern of 1964, when adults found long past period of activity (first and second cover sprays). (Savos, June 23). NEW YORK - Activity apparently over in Niagara County; egg laying extensive in unsprayed orchards. (N.Y. Wkly. Rpt., June 21). INDIANA - Heavy on apple, apricot, peach, plum and almond trees in Columbia City area, Whitley County. (Matthew). WISCONSIN - Scars on untreated apple fruit in Dane County indicates high population earlier. (Wis. Ins. Sur.).

BROAD-NECKED ROOT BORER (Prionus laticollis) - RHODE ISLAND - First adults of year at Kingston, Washington County. (Hyland, Mathewson).

APPLE APHID (Aphis pomi) - NEW YORK - Light numbers colonizing in Clinton County. (N.Y. Wkly. Rpt., June 21). CONNECTICUT - Active on fruit. (Savos). WISCONSIN - Increasing on untreated apple foliage in Madison area. Probably this species building up on plum in Grant and Fond du Lac Counties. (Wis. Ins. Sur.).

ROSY APPLE APHID (Anuraphis rosea) - NEVADA - Heavy and causing severe leaf curl on apple in southern Washoe County. (Bechtel, Gallaway).

BLACK CHERRY APHID (Myzus cerasi) - IDAHO - Infesting cherry tree in Sandpoint area. (McPherson).

SAN JOSE SCALE (Aspidiotus perniciosus) - UTAH - Severe on neglected trees in some stone fruit orchards in Salt Lake County. (Knowlton, Burningham, June 18). SOUTH CAROLINA - Serious on plum in Aiken County. (Nettles et al., June 22).

PERIODICAL CICADAS (Magicicada spp.) - OHIO - Activity over in southern and south-eastern sections except for small areas. Flagging most evident now. Adults continue active in northern section of Brood V emergence area. (Rose).

TARNISHED PLANT BUG (Lygus lineolaris) - NEW YORK - Apparently more than usual number in Orleans County peach orchards. (N.Y. Wkly. Rpt., June 21).

EUROPEAN APPLE SAWFLY (Hoplocampa testudinea) - RHODE ISLAND - Larvae heavy in apple fruit in orchard in Kingston, Washington County. (Mathewson, Shutak).

PEAR-SLUG (Caliroa cerasi) - INDIANA - Injuring cherry trees in Osgood, Ripley County. (Lehker). NEVADA - Larvae appearing on pear trees in Reno, Washoe County. (Headrick).

CHERRY FRUIT FLIES (Rhagoletis spp.) - NEW YORK - Emergence of R. fausta (black cherry fruit fly) heavy and continuous through June 16 in western area; no R. cingulata (cherry fruit fly) captured in cages to June 21. Adult R. cingulata increasing in Monroe County; emerged June 16. First emergence in cage near Middleport, Niagara County, June 21. (N.Y. Wkly. Rpt.). PENNSYLVANIA - R. cingulata started emerging in Erie County June 11. (Cox). WISCONSIN - R. fausta adults noted in Door County June 17. Adult, probably R. cingulata, taken in blacklight trap at Madison. (Wis. Ins. Sur.).

APPLE MAGGOT (Rhagoletis pomonella) - CONNECTICUT - No adults collected in emergence cages. First flies should emerge during next 2 weeks if pattern same as in 1964. (Savos, June 23). NEW YORK - Emergence in cages began June 9 at Highland; began June 14 in Columbia County. (N.Y. Wkly. Rpt.).

PEAR MIDGE (Contarinia pyrivora) - NEW YORK - Appearing in some orchards in Oswego County. (N.Y. Wkly. Rpt., June 21).

EUROPEAN RED MITE (Panonychus ulmi) - VERMONT - Populations increasing, even in sprayed blocks. (MacCollom, June 21). CONNECTICUT - Small populations found; few adults and some eggs present. (Savos, June 23).

TWO-SPOTTED SPIDER MITE (Tetranychus telarius) - CONNECTICUT - Small populations present but causing no problems; few adults and some eggs found. (Savos).

A FRUIT FLY (Anastrepha suspensa) - FLORIDA - Unusual numbers continue in Miami area, Dade County; 150-200 adults per trap fairly common. Special survey continues and indicates gradual spread in most directions. (Fla. Coop. Sur.).

A SNOW SCALE (Unaspis citri) - FLORIDA - Special survey reveals occasional heavy infestation in citrus groves and nurseries. (Fla. Coop. Sur.).

COTTONY-CUSHION SCALE (Icerya purchasi) - CALIFORNIA - Locally heavy in citrus trees in Glenn, Glenn County. (Cal. Coop. Rpt.).

BROWN SOFT SCALE (Coccus hesperidum) - CALIFORNIA - Adults heavy on citrus nursery stock in Marysville, Yuba County. (Cal. Coop. Rpt.).

CITRUS THRIPS (Scirtothrips citri) - ARIZONA - Treatment underway in some groves in Yuma area, Maricopa County. (Ariz. Coop. Sur.).

BLUEBERRY MAGGOT (Rhagoletis mendax) - NEW JERSEY - Adults very heavy in traps in New Lisbon and Sheep Pen Hill areas. Careful treatments urged. (Ins.-Dis. Newsltr.).

GRAPE SAWFLY (Erythrastides vitis) - NORTH CAROLINA - Larvae damaging grape planting in Montgomery County June 18. Det. by D. A. Mount. (Garriss).

GRAPE BERRY MOTH (Paralobesia viteana) - MISSOURI - Second brood appearing. (Wkly. Rpt. Fr. Grs., June 23).

HICKORY SHUCKWORM (Laspeyresia caryana) - GEORGIA - Larvae moderate and entering shucks of pecans in Randolph County. (Teddars).

WALNUT CATERPILLAR (Datana integerrima) - GEORGIA - Light on pecans in Hancock County. (Livingston). OKLAHOMA - Light on pecan trees in Stillwater area, Payne County. (Okla. Coop. Sur.).

PECAN NUT CASEBEARER (Acrobasis caryae) - OKLAHOMA - Heavy on pecans in McCurtain County. (Okla. Coop. Sur.). NEW MEXICO - Detection surveys in Mesilla Valley of Dona Ana and Sierra Counties negative. (Garcia, Gomez).

FALL WEBWORM (Hyphantria cunea) - GEORGIA - Light and general on pecans throughout State. (Livingston, Johnson). OKLAHOMA - First infestations of year on pecan trees in Lincoln, Pottawatomie, Payne and McCurtain Counties. (Okla. Coop. Sur.). TEXAS - Light on pecans in Caldwell, Comal, Guadalupe and Hays Counties. (Texas Coop. Rpt., Massey).

SALT-MARSH CATERPILLAR (Estigmene acrea) - TEXAS - Damaging pecan foliage in Glasscock County. (Neeb).

APHIDS -ALABAMA - Yellow species infesting pecans in central and south sections. Heavy only in Mobile County. (Bagby et al.).

BLACK-MARGINED APHID (Monellia costalis) - ARIZONA - Continues heavy and damaging on pecan trees and nearby ornamentals in Graham County. Control results good. (Ariz. Coop. Sur.). NEW MEXICO - Mostly very light to light, occasionally heavy, on pecan trees in Dona Ana and Sierra Counties. (Garcia, Gomez). OKLAHOMA - Averaged 4 per leaf on pecan trees checked in McCurtain County. (Okla. Coop. Sur.).

AN ERIOPHYID MITE (Eriophyes sp.) - NORTH CAROLINA - Rolling edges of pecan leaves in Wilson and Lenoir Counties. (Lewis, Koonce).

PECAN LEAFROLL MITE (Aceria caryae) - GEORGIA - Collected from leaves of pecan on farm in Coweta County on May 17 by R. L. Livingston. Det. by R. Davis. This is a new State record. Additional collection made by R. L. Livingston in Athens, Clarke County on June 19. Det. by J. Buttram. This constitutes a new county record. (Johnson). OKLAHOMA - Light on pecan trees in Payne and McCurtain Counties. (Okla. Coop. Sur.).

PECAN SPITTLEBUG (Clastoptera achatina) - ALABAMA - Light locally on pecans in southern Mobile County. (Deakle).

TRUCK CROP INSECTS

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - RHODE ISLAND - Larvae active on potatoes in West Kingston, Washington County. (Stessel, Mathewson). NEW JERSEY - Adults again emerging; egg laying expected. (Ins.-Dis. Newsltr.). MARYLAND - Light to moderate on tomatoes checked in Worchester County. (U. Md., Ent. Dept.). INDIANA - Adults averaged 3 per plant on potatoes in one area of Washington County. Plants 25-30 percent defoliated. (Huber). OKLAHOMA - Larvae and adults moderate on potatoes checked in Dewey County. (Okla. Coop. Sur.). UTAH - Necessitated controls on tomatoes and potatoes in southern Weber County. (Dorst, Knowlton, June 18). IDAHO - Eggs present on volunteer potatoes in Saint Anthony area since late May. Egg laying general on commercial potato plants June 14. (Garner). Adults and larvae general in Canyon and Twin Falls Counties. (Bechtolt, Youtz).

BLISTER BEETLES - OKLAHOMA - Moderate on tomatoes in Delaware County and heavy in gardens in Choctaw County. (Okla. Coop. Sur.).

POTATO FLEA BEETLE (Epitrix cucumeris) - NORTH DAKOTA - Damage moderate on potatoes near Grand Forks. (Brandvik). MAINE - Generally light on untreated potato plants near Presque Isle, Aroostook County. (Shands et al.).

STRIPED FLEA BEETLE (Phyllotreta striolata) - WYOMING - Large numbers damaging potatoes and tomatoes in gardens at Worland, Washakie County. Light, spotty damage to sugar beets in Big Horn, Washakie and Hot Springs Counties. (Marks).

GREEN PEACH APHID (Myzus persicae) - WASHINGTON - Apteræ and alates increasing rapidly on potatoes, sugar beets, other crops and weeds in eastern section. (Landis, June 21).

POTATO APHID (Macrosiphum euphorbiae) - MARYLAND - Light to moderate on tomatoes checked in Worchester County. (U. Md., Ent. Dept.). RHODE ISLAND - Building up in potatoes in West Kingston, Washington County. (Stessel, Mathewson).

Aphids on Potatoes in Maine - Infestation of untreated potato plants at Presque Isle, Aroostook County, varies with location and age. From 1-22 percent (average 6.7) of 1-4 inch high plants infested; 32 percent of 5-6 inch high plants infested at one location. POTATO APHID (Macrosiphum euphorbiae) predominant, followed by BUCKTHORN APHID (Aphis nasturtii) and GREEN PEACH APHID (Myzus persicae). Spring migrations still in progress. (Shands et al.).

TOMATO PINWORM (Keiferia lycopersicella) - CALIFORNIA - Larvae heavy, damaging leaves, twigs and fruit of tomatoes in Chula Vista, San Diego County. (Cal. Coop. Rpt.).

BUFFALO TREEHOPPER (Stictocephala bupalus) - IOWA - Nymphs feeding on and killing tomato plants in Calhoun County. (Iowa Ins. Inf., June 21).

MITES - TEXAS - Unspecified spider mite heavy on tomatoes over wide area of State. (Texas Coop. Rpt.). OKLAHOMA - Damaging tomatoes and other vegetables in Payne and Murray Counties. (Okla. Coop. Sur.). NEW JERSEY - Spotted species very high on young cantaloupe plants. (Ins.-Dis. Newsltr.).

IMPORTED CABBAGEWORM (Pieris rapae) - NEW YORK - Larval feeding light but unprotected crucifers may be injured. (N.Y. Wkly. Rpt., June 21). NEW JERSEY - Found on cabbage and other cole crops. (Ins.-Dis. Newsltr.).

CABBAGE LOOPER (Trichoplusia ni) - DELAWARE - Present on cabbage in eastern Kent County. (Burbutis). ARIZONA - Feeding on watermelon vines in Maricopa County. (Ariz. Coop. Sur.).

CABBAGE APHID (Brevicoryne brassicae) - CALIFORNIA - Heavy on cabbage in Princeton, Colusa County. (Cal. Coop. Rpt.).

CABBAGE MAGGOT (Hylemya brassicae) - NEW YORK - Caused considerable concern throughout State; controls recommended. Found in treated seedbeds in Ontario County. Continues heavy in most parts of Niagara County. Activity lessening in Wayne County. (N.Y. Wkly. Rpt., June 21). MICHIGAN - Larvae heavy in radish research plots in Ingham and Clinton Counties. (Wells). WASHINGTON - Damaging German radish at Prosser, Benton County. (Gerlitz, June 21).

A FLEA BEETLE (Phyllotreta cruciferae) - DELAWARE - Common on horseradish in one area of Kent County. (Boys).

MEXICAN BEAN BEETLE (Epilachna varivestis) - NEW HAMPSHIRE - Active on string beans at Newmarket. (Blickle). NEW YORK - Adults feeding on beans in central area; inspections urged. (N. Y. Wkly. Rpt., June 21). MARYLAND - Light but increasing in 20-acre bean field in Worchester County. (U. Md., Ent. Dept.). GEORGIA - Light to moderate on beans in south section. (Johnson). COLORADO - Overwintered adults appeared in beans in Weld and Larimer Counties. (Urano, Simpson, Daniels). MISSOURI - Light, one per 2 plants, on garden beans in Lawrence County. (Houser et al.).

BEAN LEAF BEETLE (Cerotoma trifurcata) - MISSOURI - Adults ranged 1-3 per plant on garden beans in Lawrence County. (Houser et al.).

COWPEA CURCULIO (Chalcodermus aeneus) - GEORGIA - Heavy on crowder peas in Turner County. (Johnson).

ALFALFA WEEVIL (Hypera postica) - OHIO - Adults reported damaging beans and other vegetables in Tuscarawas County. (Cronin et al.).

POTATO LEAFHOPPER (Empoasca fabae) - NEW JERSEY - Causing considerable damage to beans. (Ins.-Dis. Newsltr.). MARYLAND - Nymphs heavy and damaging snap beans and potatoes in Wicomico County. (U. Md., Ent. Dept.). WISCONSIN - Populations of nymphs and adults unchanged on lima beans in Rock County. (Wis. Ins. Sur.).

GREEN CLOVERWORM (Plathypena scabra) - NEW JERSEY - Damaging beans extensively in south section. (Ins.-Dis. Newsltr.).

THRIPS - NEW JERSEY - Killed some young bean plants in south section. Present on many crops. (Ins.-Dis. Newsltr.). MARYLAND - Heavy on beans, cucurbits and tomato blossoms on Eastern Shore. (U. Md., Ent. Dept.).

PEA APHID (Acyrtosiphon pisum) - WISCONSIN - Increasing slightly in peas. (Wis. Ins. Sur.).

TWO-SPOTTED SPIDER MITE (Tetranychus telarius) - NEW JERSEY - High population found on young lima beans. (Ins.-Dis. Newsltr.). ARIZONA - Continues injury to melons in Yuma County. (Ariz. Coop. Sur.).

PEA LEAF MINER (Liriomyza langei) - CALIFORNIA - Severe in garbanzo beans in Portuguese Bend, Los Angeles County. (Cal. Coop. Rpt.).

ASPARAGUS BEETLES (Crioceris spp.) - RHODE ISLAND - C. duodecimpunctata (spotted asparagus beetle) adults extremely heavy at East Greenwich, Kent County; C. asparagi (asparagus beetle) much less abundant. (Hannah, Mathewson, Sorensen). NEW YORK - C. asparagi and C. duodecimpunctata feeding on asparagus foliage; controls recommended. (N.Y. Wkly. Rpt., June 21). WISCONSIN - C. duodecimpunctata high on asparagus in Clark County. (Wis. Ins. Sur.).

ONION MAGGOT (Hylemya antiqua) - NEW YORK - Severe in some onion fields in Orange County. (N.Y. Wkly. Rpt., June 21). NEW JERSEY - Sticky boards at Cedarville trapped 136 adults on 6 boards June 21. (Ins.-Dis. Newsltr.). NORTH DAKOTA - Severe on onions at Fargo, Cass County. (Haynes). COLORADO - Damaging untreated onion fields in Ault area, Weld County. (Urano). UTAH - Moderate infestations reported in onion patches in Davis County. (Knowlton, June 18). WASHINGTON - Damaging onions at Prosser, Benton County. (Gerlitz, June 21).

CUTWORMS - NEW YORK - Caused much concern and substantial damage in spring; now pupating. Euxoa spp. primarily involved; reoccurrence of cutworms not expected. (N.Y. Wkly. Rpt., June 21). UTAH - Unspecified species damaged several acres of young sugar beets in Bear River City area of Box Elder County. (Knowlton, Finch, June 18).

VARIEGATED CUTWORM (Peridroma saucia) - CALIFORNIA - Larvae medium in sugar beets in Santa Maria, Santa Barbara County. (Cal. Coop. Rpt.).

ALFALFA LOOPER (Autographa californica) - WYOMING - Damage moderate to heavy to sugar beet plants in Washakie County area. Infested areas averaging 2-3 larvae per plant; controls recommended. (Marks).

BEET WEBWORM (Loxostege sticticalis) - WYOMING - Eggs numerous on sugar beet leaves in Big Horn, Washakie and Hot Spring Counties. No larvae taken. (Marks).

WHEAT WIREWORM (Agriotes mancus) - NEW YORK - Severely damaged 10-acre sugar beet planting in Auburn area, Cayuga County. (N.Y. Wkly. Rpt., June 21).

BEET LEAFHOPPER (Circulifer tenellus) - UTAH - Averaged less than 0.1 per foot of row in sugar beets in central and northern areas of State; averaged 0.12 per foot of row in eastern area. Curly top averaged 2 percent on market tomatoes in "Dixie" area of Washington County. (Dorst, June 18).

SPINACH LEAF MINER (Pegomya hyoscyami) - RHODE ISLAND - Extensive mining in beet leaves in Wakefield, Washington County. Eggs present. (Mathewson). WYOMING - Larvae numerous in sugar beet leaves in Big Horn, Washakie and Hot Springs Counties. (Marks). UTAH - Infesting chard in Salt Lake County fields. (Burningham, Knowlton).

SUGAR-BEET ROOT MAGGOT (Tetanops myopaeformis) - NORTH DAKOTA - Adults abundant around sugar beets in Walsh County. (Dogger). COLORADO - Larvae damaging untreated sugar beets northeast of Greeley. (Boyes). Total of 4 adults caught in bait trap in Larimer County during week. Adult activity has reached peak. (Gaskill, Jenkins).

CUCUMBER BEETLES - WISCONSIN - Acalymma vittatum (striped cucumber beetle) heavy on foliage of commercial squash planting in southern Dane County. Diabrotica undecimpunctata howardi (spotted cucumber beetle) less common on cucurbits. (Wis. Ins. Rpt.).

SQUASH VINE BORER (Melittia cucurbitae) - GEORGIA - Damaging squash in Warren and Clark Counties. (Gates). TEXAS - Heavy locally and damaging squash in San Jacinto County. (Jackson).

STRAWBERRY APHID (Chaetosiphon fragaefolii) - NEW JERSEY - Flights in strawberry beds about over. (Ins.-Dis. Newsltr.).

CUTWORMS - MASSACHUSETTS - Damaging ripening strawberries statewide where no controls applied earlier. (Wave, June 19).

SLUGS - NEW HAMPSHIRE - Damaging strawberries in Sullivan County. (Southerland).

SWEETPOTATO FLEA BEETLE (Chaetocnema confinis) - MARYLAND - Adults ranged 1-3 per plant on sweetpotatoes checked in Worcester County. (U. Md., Ent. Dept.).

STALK BORER (Papaipema nebris) - DELAWARE - Larvae common in rubarb in New Castle County. (Burbutis).

SEED-CORN MAGGOT (Hylemya platura) - NEW JERSEY - Sticky board traps at Cedarville caught 374 adults on 6 boards June 21. (Ins.-Dis. Newsltr.).

STRAWBERRY ROOT WEEVIL (Brachyrhinus ovatus) - WASHINGTON - Moderate to heavy in small areas of 40-acre sugar beet field at Prosser, Benton County. Averaged 15-25 adults per plant in infested areas. (Cone, June 21).

STRAWBERRY LEAF ROLLER (Ancyliis comptana fragariae) - COLORADO - Larvae quite noticeable in several home gardens in Twin Falls County. (Youtz).

SQUASH BUG (Anasa tristis) - OKLAHOMA - Moderate to heavy on commercial watermelons and cantaloupes in Jefferson County and on squash in home gardens in Nobel, Payne, Stephens and Murray Counties. (Okla. Coop. Sur.).

GRASSHOPPERS - MISSOURI - Melanoplus spp. caused light to heavy damage in gardens in southwest district. (Hamm). OKLAHOMA - Several species damaging vegetable gardens in Bryan, Murray and Delaware Counties. (Okla. Coop. Sur.).

COTTON INSECTS

BOLL WEEVIL (*Anthonomus grandis*) - NORTH CAROLINA - Ranged 18-65 (average 43) percent punctured squares in 4 untreated or poorly treated fields of cotton in Robeson County; ranged 2-4 percent in 3 treated fields. Infestations ranged 10-80 (average 42) percent punctured squares in 5 untreated fields in Bladen County; averaged 8 and 10 percent punctured squares in 2 fields treated 2-3 times. Punctured squares averaged 46 percent in untreated Cumberland County field. (Mount). SOUTH CAROLINA - Emergence continues heavy in Florence area. Infestations in untreated plots and in inadequately treated fields continue to increase. Larval infestations range 0.9-5.3 percent in treated plots and 7.0-28.0 percent in untreated plots. (Taft et al., June 23). Emerged from hibernation in record numbers; only 2 upper Piedmont counties failed to report this cotton pest. Square infestation counts of 10-50 percent not uncommon; ranged as high as 90-100 percent in some unsprayed fields. (Cott. Ltr., June 21). TENNESSEE - More activity observed in southern counties than at any time this season. Percent punctured squares relatively high where fruiting cotton has squares large enough for weevils to reproduce. As squares are now scarce, counts do not give proper indication of what infestations really are. (Locke). GEORGIA - Percent punctured squares ranged 0-33 (average 7) in 25 southern area cotton fields (Johnson); ranged 0-5 percent in 8 fields checked in Colquitt and Terrell Counties. (French). ALABAMA - Infestations very heavy in coastal, central and western counties, and as far north as Cherokee, Calhoun, Talladega, Tuscaloosa, Pickens and Fayette Counties. Reports indicate light counts in southwest as compared with other areas. "Hatch outs" reported heavy in most affected areas, especially in southeast. (McQueen). MISSISSIPPI - Light infestations found in several fields in delta counties numbers heavier in some fields but these scattered occurrences. (Pfrimmer et al., June 24). Infestations in hill section higher than usual for time of year. Many growers applying controls for overwintering weevils, especially in older cotton where weevils concentrating. Movement from overwintering quarters about over. Reports indicate general first "hatch out" will occur during first week of July. (Young, Bennett, June 28). LOUISIANA - Infestations increasing in some fields in Madison Parish; ranged 0-44 (average 11) percent in 32 fields. Of 70 fields examined for overwintering weevils, 42 fields found infested. Averaged 560 weevils per acre in 9 fields and ranged 10-100 per acre in remainder of fields. Total of 49 weevils recovered from 50 trap plants near hibernation quarters, compared with 130 weevils previous period. (Cleveland et al., June 24).

ARKANSAS- Overwintering weevils more numerous than in 1964. Punctured squares zero to very low except in few fields near favorable hibernation quarters. In a Cross County field with 26,000 squares per acre, punctured squares averaged 9 percent. Punctured squares 13 percent in Conway County field with 18,000 squares per acre. Both fields average 58 weevil per acre and both fields near favorable hibernation quarters. (Ark. Ins. Sur.). TEXAS - Found in 9 of 26 treated fields and 2 of 3 untreated fields in McLennan and Falls Counties; averaged 55 per acre in untreated fields (maximum count 250), overall average 50 per acre. Percent punctured squares averaged 1.6 in 17 treated fields and 3.6 in 5 untreated fields. No weevils emerged from hibernation cages and none collected on flight screens. (Cowan et al.). Overwintered weevils observed in 12 fields in Dickens and Kent Counties; first of season reported from Briscoe County; ranged 44-66 per acre in Motley County; reported from 15 rolling plains counties; heavy in one field in Wichita County but generally light over area. Infestations very light and scattered in Brazos, Grimes, Washington, Burleson, Brazoria, Fort Bend, Walker, Madison, Houston and Red River Counties. Counts ranged 3-20 percent in Guadalupe and Comal Counties; heavy in Wharton and scattered areas of Walker Counties; numbers light in Kinney County. Infestations increased in most Rio Grande Valley fields with local showers continuing to buildup. (Texas Coop. Rpt.).

BOLLWORMS (*Heliothis* spp., et al.) - SOUTH CAROLINA - Light infestations observed in inadequately treated fields in Florence area. Larval infestations ranged 0.4-3.4 percent in treated plots and 0-2.3 percent in untreated plots. Total of 12 *H. zea* (bollworm) taken in light trap week ending June 23; no *H. virescens* (tobacco budworm) adults taken. (Taft et al.). Infestations scattered and mostly light in Coastal Plain area. Heavy infestations reported in Barnwell and Clarendon Counties. (Cott. Letr., June 21). TENNESSEE - Occasional larva found in some older cotton in western area. (Locke). GEORGIA - Egg counts ranged 0-9 (average 3) and larvae ranged 0-6 (average 4) per 100 terminals. (Johnson, June 23). Larvae ranged 0-3 per 100 terminals in Colquitt and Terrell Counties. (French). ALABAMA - Egg counts lower than previous week; larvae exceeded 4 per 100 terminals in only 3 counties. (McQueen). MISSISSIPPI - Very few eggs and few larvae found on cotton in delta counties. Some square injury found but populations generally low. Moth flight low; should remain so for about another 7 days. Majority of larvae collected in Stoneville area during June determined as *H. virescens*. (Pfrimmer et al., June 24). *H. zea* and *H. virescens* generally very light over State; medium infestations reported in few isolated fields in Bolivar, Copiah, Calhoun and Lowndes Counties. (Young, Bennet, June 28). LOUISIANA - Infestations light in most fields examined in Madison Parish. Of 20 fields examined, eggs averaged 2 per 100 terminals in 10 fields and larvae averaged 3 per 100 terminals in 7 fields. (Cleveland et al.). ARKANSAS - Total of 34 *H. zea* and 11 *H. virescens* collected on sugar lines in cotton in Desha County during period June 17-23. *H. virescens* comprised 24.4 percent of collections and is higher than generally occurs. (Ark. Ins. Sur.). TEXAS - Infestation in cotton in McLennan and Falls Counties remains light, with only occasional field requiring treatment. Eggs averaged 0.9 and larvae 0.7 per 100 terminals in 45 treated fields and 0.4 eggs and 0.1 larva per 100 terminals in 11 untreated fields. Square injury averaged 1.7 percent in 22 fields. (Cowan et al.). Light, scattered numbers reported in Dickens, Kent and Schleicher Counties; populations light in Milam, Hill, Limestone, Collin, Grayson, and Kaufman Counties with egg laying increasing. Light, local infestations noted in Brazos, Burleson, Grimes, Washington, Kinney and Pecos Counties. Numbers increased in most Rio Grande Valley fields. (Texas Coop. Rpt.).

CABBAGE LOOPER (*Trichoplusia ni*) - SOUTH CAROLINA - Light infestations noted in inadequately treated fields in Florence area. (Taft et al., June 23). Some light infestations noted. (Cott. Letr., June 21). ARIZONA - All larval stages present on cotton in Gila Valley in Yuma County; average 30 per 100 sweeps. Infestations scattered through Pinal County. (Ariz. Coop. Sur.).

BEE AMRYWORM (*Spodoptera exigua*) - TEXAS - Light on cotton in Dickens County (Rummel) and in many rolling plains counties. (Boring). CALIFORNIA - Populations low in many fields of cotton in Fresno County, but numbers generally insufficient to require controls. (Ferris, June 16). An economic population observed on cotton in Tulare Lake area of Kings County, with egg masses to medium sized larvae evident. (Burton, June 15).

YELLOW-STRIPED ARMYWORM (*Prodenia ornithogalli*) - TENNESSEE - Noted in many cotton fields in western area but no damage noted. (Locke). TEXAS - Light, local numbers observed on cotton in many rolling plains fields. (Boring).

STALK BORER (*Papaipema nebris*) - TENNESSEE - Occasional infested cotton plant found along outer edges of some fields in southern counties. (Locke). TEXAS - Damaged terminals of some plants in several fields in McLennan and Falls Counties; averaged 2.1 per 100 terminals in 22 treated fields and 0.8 per 100 terminals in 6 untreated fields. (Cowan et al.).

COTTON SQUARE BORER (*Strymon melinus*) - TEXAS - Light, local populations reported on cotton in Guadalupe, Hill, Williamson and Kaufman Counties. (Texas Coop. Rpt.).

GARDEN WEBWORM (*Loxostege similalis*) - TENNESSEE - Found on cotton terminals in northern portion of cotton-growing area; damage considered light. (Locke).

CUTWORMS - TEXAS - Reported to have ruined several stands of cotton in Scurry and Cottle Counties. (Boring).

PINK BOLLWORM (Pectinophora gossypiella) - TEXAS - Larvae ranged 100-450 per acre in Maverick County. Single specimen found in cotton in Hay County field. Few, scattered larvae found on cotton in Brazos River bottom area. (Texas Coop. Rpt.; Tapscott, Massey, Wipprecht).

FLEAHOPPERS - MISSISSIPPI - Light infestations found on cotton in delta counties. (Pfrimmer et al., June 24). LOUISIANA - Psallus seriatus (cotton fleahopper) more numerous on cotton in Madison Parish than previous few weeks indicating migration has peaked in area. Ranged 0-5 per 100 sweeps. (Cleveland et al., June 24). OKLAHOMA - P. seriatus averaged 3 per plant on 8-leaf cotton in Comanche County. (Okla. Coop. Sur.). TEXAS - Counts of P. seriatus per 100 terminals of cotton averaged 3-5 in Kinney and Hudspeth Counties, ranged 10-20 in Brazoria and Fort Bend Counties, and averaged 30 in Walker, Houston and Madison Counties. Heavy on cotton in Wharton County and light to moderate in Guadalupe and Gonzales Counties. Infestations increasing in Brazos River bottom area with counts as high as 50 per 100 terminals. Movement into fields in Blacklands area also increased. Scattered populations reported from many rolling plains counties and observed in some older cotton in several fields in high plains area but no widespread infestations reported. (Texas Coop. Rpt.). NEW MEXICO - Spanogonicus albofasciatus appearing on terminals of cotton plants in many fields checked in Dona Ana County. (N. M. Coop. Rpt.). ARIZONA - S. albofasciatus continues moderate on cotton throughout Pinal County. Control by ground application increasing. Populations on increase in Graham County; range 8-30 per 100 sweeps. (Ariz. Coop. Sur.).

LYGUS BUGS (Lygus spp.) - TEXAS - Light numbers observed on cotton in Kinney County. (Neeb). ARIZONA - Populations increasing in cotton throughout State with damaged squares very noticeable. Increasing in higher elevations. Counts in Yuma County ranged 20-90 per 100 sweeps and 7 per 100 sweeps in Maricopa County. Counts continue sufficiently high to cause injury to plants. (Ariz. Coop. Sur.). CALIFORNIA - Populations increasing on cotton in Fresno County but presents no serious problem in most areas. One report from Five Points-Huron area indicates movement into cotton from adjacent safflower and seed crops. (Ferris, June 16).

PLANT BUGS - TENNESSEE - Lygus lineolaris (tarnished plant bug) and Adelphocoris rapidus (rapid plant bug) appearing in much cotton as environ vegetation toughens in western area. (Locke). MISSISSIPPI - L. lineolaris numbers appear to have decreased in delta counties; light in most fields. (Pfrimmer et al., June 24). LOUISIANA - L. lineolaris more abundant on cotton than on other crops and wild host plants indicating migration has peaked in Madison Parish; ranged 0-5 per 100 sweeps on cotton. (Cleveland et al., June 24).

A FALSE CHINCH BUG (Nysius raphanus) - CALIFORNIA - Remains active on cotton in Fresno County, but infestations not of economic importance. (Ferris, June 16).

APHIDS - SOUTH CAROLINA - Light infestations noted in some cotton. (Cott. Ltr., June 21). TENNESSEE - Aphis gossypii (cotton aphid) heavy on individual cotton stalks in some instances within fields over western area. (Locke). GEORGIA - A. gossypii light on cotton in southern area. (Johnson, June 23). TEXAS - A. gossypii light in 20 fields and medium in 1 field in McLennan and Falls Counties. (Cowan et al.). Light on cotton in El Paso, Hudspeth and Walker Counties. (Texas Coop. Rpt.).

BANDED-WING WHITEFLY (Trialeurodes abutilonea) - ARIZONA - Infestations light in some fields of cotton. (Ariz. Coop. Sur.).

THRIPS - SOUTH CAROLINA - Infestations decreasing rapidly on cotton. (Cott. Ltr., June 21). LOUISIANA - Light on cotton in experimental plots in Madison Parish; only light damage observed in survey fields. (Cleveland et al., June 24). OKLAHOMA - Frankliniella spp. heavy in cotton in Pawnee and Osage Counties; moderate in Comanche, Cotton, Bryan and Grady Counties. (Okla. Coop. Sur.).

TEXAS - Light on cotton in 14 fields and medium in 4 fields in McLannan and Falls Counties. (Cowan et al.). Light to heavy in most high plains counties, with populations apparently increasing in some areas. Generally light and scattered in 24 rolling plains counties; continues to be reported on cotton in Blacklands area. Light on replanted cotton in Brazos River bottom area and continued light in trans-Pecos area. (Texas Coop. Rpt.). NEW MEXICO - Unspecified species causing minor damage to cotton foliage in Deming area, Luna County. (Campbell). ARIZONA - Frankliniella spp. continue injurious to cotton in all parts of State. (Ariz. Coop. Sur.).

GRASSHOPPERS - OKLAHOMA - Reported damaging cotton in Comanche, Greer and Grady Counties. (Okla. Coop. Sur.). TEXAS - Damaging field margins in Grimes and Washington Counties and spotted areas in rolling plains section. (Texas Coop. Rpt.).

SPIDER MITES - GEORGIA - Light to moderate on cotton in Oconee, Burke and Madison Counties. (Thomas, Durden). ARIZONA - Tetranychus telarius (two-spotted spider mite) continues troublesome on cotton in Maricopa, Yuma and Pinal Counties. (Ariz. Coop. Sur.). CALIFORNIA - T. telarius appears to be predominant spider mite species on cotton in Kerman, Rolinda and Biola areas of Fresno County. Controls being used. Spider mites present most serious pest problem in most other areas in western part of county. Some growers obtaining success with sulfur applications. Where systemic insecticides used, mites present no problem. (Ferris, June 16).

TOBACCO INSECTS

TOBACCO FLEA BEETLE (Epitrix hirtipennis) - INDIANA - Populations approaching economic levels on tobacco in southeast. Averaged 4 adults per plant on late set tobacco. Little if any rain since plants set, and combination of dryness and flea beetle injury caused serious damage in many fields. (Huber). MARYLAND - Adults averaged 5 per plant on field tobacco near Davidsonville, Anne Arundel County. (U. Md., Ent. Dept.).

BUDWORMS - SOUTH CAROLINA - New broods emerging. (Nettles, et al., June 22). GEORGIA - Heliothis virescens (tobacco budworm) and H. zea (tomato fruitworm) light to moderate on tobacco in southern area of State. (Johnson).

CABBAGE LOOPER (Trichoplusia ni) - SOUTH CAROLINA - Heavy on tobacco in Horry County. (Nettles, et al., June 22).

CUTWORMS - MARYLAND - Injured newly set tobacco on several farms in Charles County. (U. Md., Ent. Dept.).

FOREST, ORNAMENTAL AND SHADE TREE INSECTS

CONIFER SAWFLIES - MINNESOTA - First and second instars of Diprion similis (introduced pine sawfly) very light at Brainerd, Park Rapids and Badoura areas and in Scotch pine plantation west of Cotton; some adults still active. Middle to late instars of Neodiprion pratti banksianae (jack-pine sawfly) feeding in Aitkin and St. Louis Counties and in roadside jack pines at Mille Lacs County; scattered and light elsewhere. (Minn. Ins. Rpt.). WISCONSIN - N. nanulus nanulus (red-pine sawfly) larvae remaining on jack pine in Fond du Lac County in sixth instar June 16; most forming cocoons. New growth of jack pines about 1.5 inches long. (Wis. Ins. Sur.). INDIANA - N. lecontei (red-headed pine sawfly) light on pines in Monroe County. (Schuder).

SAWFLIES - MINNESOTA - Egg laying of Pristiphora erichsonii (larch sawfly) curling new growth of tamarack; adults active; no larvae observed. Second to third instars of Pikonema alaskensis (yellow-headed spruce sawfly) causing scattered defoliation to occasional black spruce in central St. Louis County. (Minn. Ins. Rpt.).

PALES WEEVIL (Hylobius pales) - PENNSYLVANIA - Caused severe damage in large white pine plantation in Indiana County. (Udine, June 18). WISCONSIN - Feeding injury noted on roots of Scotch pine stumps of trees removed in fall of 1964. No fresh injury noted at same location in Adams County June 4. (Wis. Ins. Sur.).

WEEVILS (Pissodes spp.) - RHODE ISLAND - P. strobi (white-pine weevil) caused wilting of leaders on trees in Cranston, Providence County. (Mathewson). PENNSYLVANIA - P. approximatus (northern pine weevil) caused severe damage in large white pine plantation in Indiana County. (Udine, June 18). INDIANA - Adults of P. affinis feeding on terminals of white and Scotch pines in Monroe County. Many pupae and callow adults in stumps. (Schuder).

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - NORTH CAROLINA - Active in epidemic proportions in upper Piedmont and in Hertford, Gates, Perquimans and Beaufort Counties. (Forest Pest Newsltr.). MARYLAND - Adult emergence underway June 18 on loblolly pine in Worcester and Somerset Counties. (Wood).

EUROPEAN PINE SHOOT MOTH (Rhyacionia buoliana) - RHODE ISLAND - Adults numerous around Mugho pine in Kingston, Washington County; most active at dusk; eggs observed. (Howard, Mathewson). MICHIGAN - Adults 75 and pupae 25 percent in Livingston County infestation June 23. About 40 percent natural mortality noted. (Newman).

NANTUCKET PINE TIP MOTH (Rhyacionia frustrana) - NORTH CAROLINA - Infesting 30 acres in Nash County; unusually severe on young trees in Franklin and Halifax Counties. Emerged from pines in Wake County nursery June 10. (Forest Pest Newsltr., Greene, Wray).

AN OLETHREUTID MOTH (Rhyacionia zozana) - CALIFORNIA - Larvae heavy on Pinus sp. in Auburn, Placer County. (Cal. Coop. Rpt.).

JACK-PINE BUDWORM (Choristoneura pinus) - MINNESOTA - Light to moderate in areas from Brainerd to Park Rapids; defoliation should be apparent in some spots; early instars still in flowers; middle to late instars feeding on new foliage. (Minn. Ins. Rpt.). WISCONSIN - Mostly fourth and fifth instars in Burnett County June 21; same stages in Jackson County June 18. Browning becoming apparent on some larger trees in Burnett County. (Wis. Ins. Sur.).

PINE TUSSOCK MOTH (Dasychira plagiata) - WISCONSIN - Fourth and fifth instars noted in field in Douglas County June 18; infestations dwindled to few, small localized areas of few acres each. Larvae caged indoors at Spooner about mid-June formed cocoons June 21. (Wis. Ins. Sur.).

SPURCE NEEDLE MINER (Taniva albolineana) - IDAHO - Adults decreasing in Moscow area. (Portman).

PINE SPITTLEBUG (Aphrophora parallela) - MINNESOTA - Noticeable in Badoura and Park Rapids areas. Late nymphs in spittle masses. (Minn. Ins. Rpt.). WISCONSIN - Last instars in west central counties by June 18; fifth instars predominant in Burnett County June 21. Entire tops of scattered individual jack pines in Burnett County with massive accumulations of froth on main stems and branches. (Wis. Ins. Sur.).

SARATOGA SPITTLEBUG (Aphrophora saratogensis) - WISCONSIN - Light, mostly third instars, in Douglas County June 17; mainly second instars in Menominee County, also light. (Wis. Ins. Sur.).

WHITE-PINE APHID (Cinara strobis) - PENNSYLVANIA - Heavy on white pine nursery stock in Montgomery County. (Menusan, June 15).

PINE TORTOISE SCALE (Toumeyella numismaticum) - OHIO - Infested Scotch pine near Rogers, Columbiana County. About 3 acres containing approximately 1,000 trees infested in 40-acre plantation. Crawlers out but many under old scale coverings. (Reigelman).

ELM LEAF BEETLE (Galerucella xanthomelaena) - ARIZONA - Continues defoliation of elms in Coolidge-Florence area, Pinal County. (Ariz. Coop. Sur.). NEW MEXICO - Very abundant and severely skeletonizing foliage of Chinese elms at Balen, Valencia County. (Heninger). OKLAHOMA - Heavy in Kingfisher, Garvin and Choctaw Counties; second-generation larvae appearing in west central area and in Payne County. (Okla. Coop. Sur.). MISSOURI - First-generation adults and second-generation eggs plentiful on hybrid elms in Jasper County; first-generation adults emerging in Boone County. (Houser et al.). ILLINOIS - Browning many elms in some areas in southern half of State. (Ill. Ins. Rpt.). OHIO - Larvae feeding and causing leaf damage in Franklin and Vinton Counties. (Jones, Holdsworth). MARYLAND - Larvae heavily damaging Chinese elms at Preston, Caroline County. (U. Md., Ent. Dept.).

LARGER ELM LEAF BEETLE (Monocesta coryli) - NORTH CAROLINA - Numerous on elms in Durham County June 21; noted on number of other plants in Forsythe County June 22. (Wray).

COTTONWOOD LEAF BEETLES (Chrysomela scripta complex) - WYOMING - Larvae and adults numerous and damaging cottonwood trees in Big Horn and Washakie Counties. (Marks). COLORADO - Abundant and damaging willows in forest nursery at Fort Collins, Larimer County. (Mathews, Thatcher). MINNESOTA - Caused scattered pockets of defoliation to aspen near Isabella. (Minn. Ins. Rpt.).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - OKLAHOMA - Found on many elms in Stillwater, Payne County. (Okla. Coop. Sur.). TEXAS - Locally heavy on dying elms in Mitchell County. This is a new county record. (Meisch).

A BARK BEETLE (Pseudopityophthorus pubipennis) - CALIFORNIA - Adults medium on terminals of black oaks in Burney, Shasta County. (Cal. Coop. Rpt.).

A LEAF-MINING WEEVIL (Odontopus calceatus) - WEST VIRGINIA - Found in most western counties bordering Ohio River. Leaves of yellow-poplar, preferred host, brown in areas where beetle attack concentrated. First noticed approximately 2 weeks ago in residential and surrounding areas at Huntington in Cabell and Wayne Counties. First time this weevil known to occur in such large numbers in State (Neel, June 21). See CEIR 15(26):690 for report of this weevil in Ohio. (PPC).

EUROPEAN ELM SCALE (Gossyparia spuria) - NEW JERSEY - Controls urged in Union County. (Ins.-Dis. Newsltr.). WISCONSIN - Crawlers appearing in area near Brodhead June 22. (Wis. Ins. Sur.). NEW MEXICO - Light on elms at Mountainair, Torrance County; heavy on American elms with heavy honeydew at Santa Cruz, Santa Fe County. (Heninger).

A PLANT BUG - RHODE ISLAND - Causing extensive leaf stippling and death of tips on Moraine honeylocust in Kingston, Washington County. Leaves with identical damage noted in North Kingstown, Washington County. (Kerr, Mathewson).

ELM SAWFLY (Cimbex americana) - NORTH DAKOTA - Ovipositing on elm foliage near Dwight; adults causing some damage to twigs and small branches. (Haynes).

TENT CATERPILLARS (Malacosoma spp.) - MICHIGAN - First seasonal adults of M. americanum (eastern tent caterpillar) taken week ending June 21 at 7 Lower Peninsula blacklight traps. (Newman). WISCONSIN - Single last instar of M. disstria (forest tent caterpillar) found in Menominee County June 16; previously, single larva found on poplar tree in Antigo, Langlade County, June 10. (Wis. Ins. Sur.). MINNESOTA - Late instars of M. disstria reported in Orr-Crane Lake area; forming cocoons. Few pupae present. Forming cocoons at International Falls June 18. Predation by Calosoma spp. (ground beetles) conspicuous. (Minn. Ins. Rpt.). COLORADO - M. disstria and M. fragile (Great Basin tent caterpillar) pupating; recent rains and storms dispersed and reduced populations as much as 30 percent in Larimer County. (Colo. Ins. Sur.). UTAH - M. disstria common on shade and apple trees in many Salt Lake County communities. (Knowlton, Burningham, June 18). IDAHO - M. disstria larvae feeding evident in Sandpoint area. (McPherson).

FALL WEBWORM (Hyphantria cunea) - MISSOURI - First webs of season on persimmon in Vernon County. (Houser et al.).

BRUCE SPANWORM (Operophtera bruceata) - PENNSYLVANIA - Heavy on maple and hickory in woodlot in Lackawanna County. (Mulderig, June 7).

SPRING CANKERWORM (Paleacrita veranta) - PENNSYLVANIA - Heavy on maple and hickory in woodlot in Lackawanna County. (Mulderig, June 7).

GYPSY MOTH (Porthetria dispar) - Egg mass survey negative in DELAWARE, MARYLAND and DISTRICT OF COLUMBIA; completed first week of May. (PPC East. Reg., May Rpt.). MICHIGAN - First detection traps for season planned for Jackson, Calhoun, Eaton, Ingham, Shiawassee, Clinton and Ionia Counties. (Ring).

A LEAF ROLLER MOTH (Sparganothis acerivorana) - WISCONSIN - Very light in area of Menominee County June 16; moderate in area in 1964. Slightly higher numbers in another section of county. Most in fifth to sixth instars. In sixth instar in areas of Florence County. (Wis. Ins. Sur.).

A SATURNIID MOTH (Pseudohazis eglanterina) - CALIFORNIA - Larvae infesting willow leaves in Helm, Fresno County. (Cal. Coop. Rpt.).

UGLY-NEST CATERPILLAR (Archips cerasivoranus) - WISCONSIN - Sixth instars on scattered choke and black cherries in Waushara and Sheboygan Counties June 16. (Wis. Ins. Sur.).

A LEAF-FEEDING GRASSHOPPER (Dendrotettix quercus) - WISCONSIN - Large number of nymphs on clumps of oak sprouts along telephone right-of-way in Jackson County June 16; nymphs five-eighths inch long. (Wis. Ins. Sur.).

WALKINGSTICK (Diapheromera femorata) - WISCONSIN - Scattered, heavy infestations in areas of Menominee County June 16. (Wis. Ins. Sur.).

A CECIDOMYIID MIDGE (Dasyneura communis) - NEW HAMPSHIRE - Gallling maple leaves at Cleremont. (Sutherland).

APHIDS - CALIFORNIA - Adults of Macrosiphum rosae (rose aphid) heavy on rose bushes in Yuba City, Sutter County; persisted longer this season due to cool weather. Lachnus salignus nymphs and adults medium on willow trees in Colusa, Colusa County. Early populations not so numerous nor so severe as in past 2 years. Nymphs and adults of Prociphilus fraxinifolii heavy on ash trees in Bella Vista,

Shasta County. (Cal. Coop. Rpt.). NEVADA - Cinara tujaefilina variable, light to heavy on arborvitae in Reno-Sparks area, Washoe County. (Coop. Rpt.). IDAHO - Eriosoma lanigerum (woolly apple aphid) infested flowering crab apple at Twin Falls. (Evans). COLORADO - Several species on wide variety of shade trees and shrubs in eastern area; season favorable for development; however, parasitism and predation appearing. (Colo. Ins. Sur.). PENNSYLVANIA - Aphis spiraeicola (spirea aphid) heavy on spirea in Centre County. (Kearby, June 18). MARYLAND - Stegophylla quercicola causing conspicuous leaf curl on black oak at College Heights Estates, Prince Georges County. (U. Md., Ent. Dept.). FLORIDA - All stages of Aphis nerii (oleander aphid) generally infesting and damaging stem and leaves on oleander in nursery at Leesburg, Lake County. (Fatic, June 15).

LACE BUGS (Corythucha spp.) - ARIZONA - Causing serious damage to cultivated sunflowers in Mammoth area, Pinal County. (Ariz. Coop. Sur.).

OYSTERSHELL SCALE (Lepidosaphes ulmi) - UTAH - Serious on ash, lilac and willow in many parts of Salt Lake County. (Burningham, Knowlton, June 18).

ARMORED SCALES - FLORIDA - All stages of Pinnaspis strachani scattered and severely damaging stem of Bauhinia sp. in nursery at Leesburg, Lake County. (Fatic, June 14). Aspidiotus yuccae generally infesting and moderately damaging leaves of Yucca sp. in nursery at Largo, Pinellas County. (Bingaman, June 16).

FLETCHER SCALE (Lecanium fletcheri) - OHIO - Immatures appearing on arborvitae and juniper in Pickaway County. (Cooley). MICHIGAN - Hatching underway June 23 in Ingham County. (Wallner). MINNESOTA - Some hatching in southeast; no dispersal of crawlers. (Minn. Ins. Rpt.).

COTTONY MAPLE SCALE (Pulvinaria innumerabilis) - NORTH CAROLINA - Infested Ilex crenata in Wake County. (Wray, June 11).

AZALEA BARK SCALE (Eriococcus azaleae) - NEW JERSEY - Caused severe damage to azaleas in Chatham area, Morris County. (Ins.-Dis. Newsltr.). RHODE ISLAND - Infested azaleas at Peace Dale, Washington County. (Mathewson).

A FLATID PLANTHOPPER (Ormenaria rufifascia) - FLORIDA - Adults appeared common over most of peninsula. Collected on Washington palm (Washingtonia robusta) at Leesburg, Lake County, (Henderson, Fatic, June 14); on cabbage palm (Sabal palmetto) at Hobe Sound, Martin County, June 20 and at Gainesville, Alachua County, June 21. (Mead).

ROSE LEAFHOPPER (Edwardsiana rosae) - UTAH - Discoloration becoming common in many home gardens in Salt Lake County. (Knowlton, Burningham, June 18).

LEAF ROLLER MOTHS (Choristoneura spp.) - COLORADO - Large numbers of larvae of C. lambertiana emerging from hibernaculae; attacking buds of pines heavily. Up to 5 larvae per bud noted; infestations general in Larimer County. (Borg, Thatcher). NEVADA - Heavy infestations of C. zapulata continue on several ornamental shrubs in Reno-Sparks area, Washoe County. (Coop. Rpt.).

BAGWORM (Thyridopteryx ephemeraeformis) - OKLAHOMA - Heavy on evergreen in Pawnee, Noble, Kay, Tillman, Choctaw, Garvin and Kingfisher Counties; moderate in Murray County. (Okla. Coop. Sur.). ILLINOIS - Damage appearing on evergreens in some southern areas. (Ill. Ins. Rpt.). OHIO - Early instars feeding on arborvitae in Pickaway County. (Cooley).

ARBORVITAE LEAF MINER (Argyresthia thuiella) - PENNSYLVANIA - Emerging and very abundant on arborvitae in Centre County. (Kearby, June 18).

MIMOSA WEBWORM (Homadula albizziae) - MISSOURI - Ranged 1-5 webs per mimosa tree in Newton County. (Houser et al.).

STALK BORER (Papaipema nebris) - DELAWARE - Larvae rather common in stalks of variety of ornamental flowers in New Castle County. (Burbutis, Woodall).

IO MOTH (Automeris io) - TEXAS - Larvae heavy and widespread on shrubs in Harris and Waller Counties. (Texas Coop. Rpt.).

MOURNING-CLOAK BUTTERFLY (Nymphalis antiopa) - NEW YORK - Defoliated weeping willows in Newark area. (N.Y. Wkly. Rpt., June 21).

BRONZE BIRCH BORER (Agrilus anxius) - MINNESOTA - Adults noted week of June 14 in St. Paul Area. (Minn. Ins. Rpt.).

ROSE CHAFER (Macrodactylus subspinosus) - VERMONT - Abundant in Rutland and Addison Counties. (MacCollom, June 21). NEW YORK - Feeding on wide range of plants; azaleas, hydrangeas, weigeliass, deutzias and peonies attacked at Centereach, Suffolk County. (N.Y. Wkly. Rpt., June 21). MICHIGAN - Adults heavy locally in several central counties. (Sowerby, Lott, Abel).

A SCARAB (Strigoderma arboricola) - NORTH CAROLINA - Very damaging to roses in Nash County. (Woodard, June 7).

HOLLYHOCK WEEVIL (Apion longirostre) - NEW JERSEY - Quite active in Middlesex County. (Ins.-Dis. Newsltr.). CALIFORNIA - Adults light on hollyhock in Chico, Butte County; collected at Princeton, Colusa County. Butte and Colusa are new county records. (Cal. Coop. Rpt.).

BLACK VINE WEEVIL (Brachyrhinus sulcatus) - MICHIGAN - Adults common on ornamental and nursery yews in several Lower Peninsula counties. (Wallner). CONNECTICUT - Now active. (Savos).

BIRCH LEAF MINER (Fenusa pusilla) - WISCONSIN - General infestations appearing in Door, Waukesha, Portage, Walworth and Bay Counties. (Wis. Ins. Sur.). CONNECTICUT - Second generation expected soon. (Savos).

SPIDER MITES (Tetranychus spp.) - OKLAHOMA - Heavy on ornamentals in Bryan County. (Okla. Coop. Sur.). ARIZONA - T. telarius (two-spotted spider mite) causing severe injury to rose bushes in some parts of Maricopa County. (Ariz. Coop. Sur.). IDAHO - T. telarius infested several ornamental evergreens in Twin Falls County. (Youtz).

SPIDER MITES - MISSOURI - Heaviest infestation of several years on ornamental shrubs in Springfield area, Greene County; rainy weather holding mites in check. (Schatz).

INSECTS AFFECTING MAN AND ANIMALS

MOSQUITOES - FLORIDA - Abundant and annoying at Collier-Seminole State Park, Collier County, June 23. (O'Brien). Repeated fogging appeared ineffective. (Fla. Coop. Sur.). ALABAMA - Aedes sollicitans (salt-marsh mosquito) heavy and widespread in extreme southern coastal areas of Mobile County; several other species occurred following rainy weather. (Seibels). VERMONT - Exceptionally abundant and annoying to livestock. (MacCollom, June 21). OHIO - Numerous species active over much of State. Dominant species in Toledo area, Lucas County, Aedes vexans, Culex pipiens, C. restuans and to lesser extent Culiseta inornata, Aedes stimulans and Culex territans. (Brockway). WISCONSIN - Activity sporadic; numbers not uniform. Most problems continue in western part of State and few in northern and central counties. Aedes vexans somewhat more common. (Wis. Ins. Sur.). MINNESOTA - During week ending June 19, collections contained few Aedes spp. larvae. Culiseta inornata and Culex spp. predominant. In both evenings and daytime bite collections, A. vexans again predominant with A. cinereus and A. sticticus important along with severe single-brooded spring Aedes spp. High mosquito numbers in forest regions in northern area. A. vexans

first species collected in light traps. Culex tarsalis accounted for 221 of over 6,000 specimens in light traps; catch of 221 of this species approached only in August of 1964. Light trap identifications for week ending June 24 show substantial increases of Culex tarsalis over preceeding week. All conditions for development of C. tarsalis ideal and very likely record-breaking populations will occur this summer. C. tarsalis is principal vector of western equine and St. Louis encephalitis. Species in Minneapolis-St. Paul area not important human biter. No encephalitis epidemic predicted; but concern for possible increase in number of cases to be watched. (Minn. Ins. Sur.). NORTH DAKOTA - Abundant in most areas of State; Aedes vexans dominant species. (Noetzel). COLORADO - Aedes dorsalis and Culex tarsalis adults numerous; steadily increasing since June 21 at Fort Collins, Larimer County. (Thatcher). Recently formed flood lands in eastern part of State pose serious problem in breeding of mosquitoes and other insects. (Colo. Ins. Sur.). UTAH - Mosquitoes troublesome about fields at Roosevelt, Vernal-Naples area and in Uintah Basin. (Knowlton, June 18). OKLAHOMA - Psorophora spp. numerous and annoying in Payne County; unspecified species heavy in Greer and Bryan Counties. (Okla. Coop. Sur.).

HORN FLY (Haematobia irritans) - OKLAHOMA - Heavy on cattle in most of south-eastern two-thirds of State. (Okla. Coop. Sur.). MISSOURI - Ranged 100-600 (averaged 300) per animal in southwestern district. (Houser et al.). ILLINOIS - Averaged 250 per animal on herd in Hardin County and 175 per animal on herd in Pulaski County. (Ill. Ins. Rpt.). SOUTH DAKOTA - Leveled to 200 per side on Black Angus stock in Charles Mix County; about same population on Black Angus herd in Clark County. (Jones). NORTH DAKOTA - Over 200 per cow in eastern areas. (Frye, Thomasson). NEW YORK - Ranged 10-20 per animal on pastured cattle. (Iowa Ins. Inf., June 21).

FACE FLY (Musca autumnalis) - SOUTH DAKOTA - Increased slightly; 5 adults per head on Black Angus herd in Charles Mix County. (Jones). ILLINOIS - Varied 0-1 per face on herd on Herford cows in Hardin County; this is a new county record. (Ill. Ins. Rpt.). PENNSYLVANIA - Averaged 4 per animal on cattle in Potter County. (Adams, June 18). MARYLAND - Ranged 1-9 per head on dairy cattle in Frederick County. (U. Md., Ent. Dept.).

HOUSE FLY (Musca domestica) - WISCONSIN - Increasing on cattle. (Wis. Ins. Sur.). ILLINOIS - Varried 0-5 about eyes on herd of Angus steers in Pulaski County; all flies collected determined this species. (Ill. Ins. Rpt.). VERMONT - At normal levels in livestock areas. (MacCollom, June 21).

TABANID FLIES - OKLAHOMA - Tabanus spp. average 10 per head on cattle in Kay County; light on cattle in Payne County. Silvius pollinosus adults numerous near water and in wooded areas in west central area. Chrysops spp. average 2 per head on cattle in Kay County. (Okla. Coop. Sur.). MISSOURI - Averaged 1 per 3 animals on cattle in southwestern district. (Houser et al.). ILLINOIS - Horse flies varied 0-1 per animal on herds in Hardin and Pulaski Counties. (Ill. Ins. Rpt.). ALABAMA - Chrysops spp. light and affecting cattle and horses in low pasture areas of Covington County. (Pike).

STABLE FLY (Stomoxys calcitrans) - WISCONSIN - Most common fly species attacking cattle. (Wis. Ins. Sur.). IOWA - Only fly species observed in feedlots; ranged 5-50 (averaged 10) per animal. One Holstein dairy heifer with 50 flies. (Iowa Ins. Inf., June 21). OKLAHOMA - Ranged 5-6 per head on cattle checked in Payne County. (Okla. Coop. Sur.).

CATTLE GRUBS (Hypoderma spp.) - IOWA - Adults running cattle in Polk County June 10-18; caused running in Delaware County June 17; controls urged. (Iowa Ins. Inf.).

BLACK FLIES (Simulium spp.) - NORTH DAKOTA - Moderately abundant in river bottoms; very abundant along Sheyenne River at Kindred. (Noetzel).

TICKS - MARYLAND - Dermacentor variabilis (American dog tick) adults present near woodlands near Laurel, Prince Georges County. (U. Md., Ent. Dept.). OHIO - Ticks, probably D. variabilis, infested dogs in Franklin County. (Jones). NORTH DAKOTA - D. variabilis continues troublesome in grassy areas. (Noetzel). OKLAHOMA - Amblyomma americanum (lone star tick) heavy on cattle in McCurtain, Bryan and Delaware Counties. A. americanum and Ixodes scapularis (black-legged tick) decreased slightly in Payne County. D. variabilis becoming bothersome in Payne County. (Okla. Coop. Sur.).

HOG LOUSE (Haematopinus suis) - NEVADA - Heavy on hogs on ranch near Yerington, Lyon County. (Lundholm).

HOUSEHOLD AND STRUCTURAL INSECTS

PAVEMENT ANT (Tetramorium caespitum) - NEW JERSEY - Flights causing concern to homeowners throughout State. (Ins.-Dis. Newsltr.). MARYLAND - Swarmed in homes and on other properties in Charles, Montgomery and Prince Georges County. (U. Md., Ent. Dept.).

ARGENTINE ANT (Iridomyrmex humilis) - CALIFORNIA - Medium populations invading buildings of Fresno City College, Fresno, Fresno County. (Cal. Coop. Rpt.).

BLACK CARPET BEETLE (Attagenus piceus) - NORTH CAROLINA - Adults collected in furniture company building in Guilford. Det. by D. A. Mount. (Mount).

EUROPEAN EARWIG (Forficula auricularia) - CONNECTICUT - Problem around many homes. (Savos). RHODE ISLAND - Infesting homes statewide. (Mathewson et al.).

A MILLIPED (Oriulus venustus) - NORTH CAROLINA - Nuisance around homes in Edgecombe, Wake and Iredell Counties. Millipeds reported in CEIR 15(25):657 determined this species. (Mount, June 18).

SUBTERRANEAN TERMITES (Reticulitermes spp.) - NORTH CAROLINA - R. virginicus swarmed June 16 in Guilford County; det. by C. G. Wright. (Goforth). NEW HAMPSHIRE - R. flavipes (eastern subterranean termite) active in basement of home in Durham. (Sutherland).

BENEFICIAL INSECTS

LADY BEETLES - ILLINOIS - Adults varied 0-80 per 100 sweeps and larvae 0-20 per 100 sweeps in clover and alfalfa in southern section. Coleomegilla maculata fuscilabris main species. (Ill. Ins. Rpt.). MINNESOTA - Numbers increased; average 18 per 100 sweeps in southeast, southwest and west central districts. (Minn. Ins. Rpt.). WYOMING - Adults and larvae range 46-85 per 100 sweeps in alfalfa in Big Horn, Washakie and Hot Springs Counties. (Marks). NEW MEXICO - Counts per 25 sweeps in alfalfa fields ranged 2-30 in Socorro County, 15-25 in Torrance County, 10-20 in Santa Fe County, 3-5 in Rio Arriba County, 20-30 in Otero County and 8-35 in Dona Ana County. (N.M. Coop. Rpt.).

MELYRID BEETLES (Collops spp.) - NEW MEXICO - Counts per 25 sweeps in alfalfa fields ranged 0-6 in Socorro County, 0-4 in Otero County and 2-6 in Dona Ana County. (N.M. Coop. Rpt.). WASHINGTON - C. hirtella adults common in large field of wheat at Ahtanum, Yakima County, and gradually increasing throughout eastern section of State. (Landis, June 21).

DAMSEL BUGS - ILLINOIS - Nabis sp. varied 5-60 and averaged about 30 per 100 sweeps in clover and alfalfa in southern section. (Ill. Ins. Rpt.). MINNESOTA - Unspecified species averaged 17 per 100 sweeps in south central and southwest districts. Very rare in other districts. (Minn. Ins. Rpt.). WYOMING - Nabis spp. adults and nymphs averaged 112 per 100 sweeps in alfalfa in Big Horn, Washakie and Hot Springs Counties. (Marks). NEW MEXICO - Unspecified species

per 25 sweeps in alfalfa fields ranged 3-12 in Socorro County, 8-10 in Torrance County, 2-6 in Rio Arriba County, 15-20 in Otero County and 6-10 in Dona Ana County. (N.M. Coop. Rpt.).

GREEN LACEWINGS - NEW MEXICO - Ranged 2-6 per 25 sweeps in alfalfa in Dona Ana County. (N.M. Coop. Rpt.). WYOMING - Chrysopa spp. adults averaged 25-50 per 100 sweeps in alfalfa in Big Horn, Washakie and Hot Springs Counties. (Marks).

ASSASSIN BUGS - NEW MEXICO - Ranged 2-5 in alfalfa in 2 Dona Ana County fields. (N.M. Coop. Rpt.).

ROBBER FLIES - NEW MEXICO - Adults abundant and active in grasshopper infestations in McCoy ranch area, Quay County. (Seaton).

SYRPHID FLIES - NEW MEXICO - Ranged 3-5 per 25 sweeps in Otero County alfalfa. (N.M. Coop. Rpt.).

A PREYING MANTID - NEW MEXICO - Two found in an alfalfa field in Otero County. (N. M. Coop. Rpt.).

A TIPHIID WASP (Tiphia vernalis) - Released for control of Popillia japonica (Japanese beetle) in Sheldon, ILLINOIS; Toledo, OHIO; Loudon County, TENNESSEE; and in Mills River section, Henderson and Buncombe Counties, NORTH CAROLINA. (PPC Cent. and East. Reg., May Rpts.).

MISCELLANEOUS INSECTS

JAPANESE BEETLE (Popillia japonica) - DELAWARE - First adults of season on roses in central Kent County June 23. (Caudle). MARYLAND - Adults increasing on favored hosts in Prince Georges County. (U. Md., Ent. Dept.). SOUTH CAROLINA - Unusually abundant on leaves of alder in Isaqueena area. (Nettles et al., June 22). OHIO - Appeared in Vinton County June 20; Licking County June 23. (Cooley, Rings).

MAY BEETLES (Phyllophaga spp.) - OKLAHOMA - Extremely large numbers emerging in Cimarron County. (Okla. Coop. Sur.).

WHITE-FRINGED BEETLES (Graphognathus spp.) - Found for the first time in Greene and Hale Counties, ALABAMA; treatments completed in Chilton, Covington, Elmore, Marion, Marshall and Tuscaloosa Counties. Found for the first time in Benton County, MISSISSIPPI. Treatments completed at Capleville, Shelby County; Madison, Gibson County; and small areas in Madison County, TENNESSEE. (PPC South. Reg., May Rpt.).

IMPORTED FIRE ANT (Solenopsis saevissima richteri) - Aerial treatment completed in Ashley, Union and Ouachita Counties, ARKANSAS; East Carroll, West Carroll and Morehouse Parishes, LOUISIANA; and the Savannah area, GEORGIA. (PPC South. Reg., May Rpt.).

PERIODICAL CICADAS (Magicicada spp.) - MARYLAND - Brood V heard in vicinity of Friendsville, Garrett County. (U. Md., Ent. Dept.).

WOOD COCKROACHES (Parcoblatta spp.) - IOWA - Reported from at least 50 counties this spring. (Iowa Ins. Inf., June 14). MINNESOTA - Continue being reported. (Minn. Ins. Rpt., June 18).

PARSNIP WEBWORM (Depressaria heracliana) - IOWA - Webbing flowers of wild parsnip. (Iowa Ins. Inf., June 21).

A MILLIPED (Oxidus gracilis) - NORTH CAROLINA - Caused numerous complaints June 5-21 in central counties; mainly Wake, Chatham, Orange, Durham and Catawba Counties. (Wray).

PLUM WEB-SPINNING SAWFLY (Neurotoma inconspicua) - TEXAS - Light infestations on peaches in Montague County week ending May 14. Det. by D. R. Smith. (Turney). This is a new State record. (PPC).

Insect on Ramie in Florida - Following insects among those taken in 100 sweeps on ramie (Boehmeria nivea) 1-2 feet high at Belle Glade, Palm Beach County, June 21: DELPHACID PLANTHOPPERS - Delphacodes propineua 21 adults, Sogata furcifera complex 6 adults; LEAFHOPPERS - Graminella nigrifrons 6 adults, Agallia constricta 1 adult, Xerophloea viridis 2 adults; GARDEN FLEAHOPPER (Halticus bracteatus) 60 adults; a BLACK FLEAHOPPER (Spanogonicus albofasciatus) 5 adults; FALSE CHINCH BUGS (Nysius spp.) 6 adults. (Mead).

CORRECTIONS

CEIR 15(12):229 - Line 1 - APPLE MEALYBUG (Phenococcus aceris) should read (Phenacoccus aceris).

CEIR 15(23):566 - THRIPS - NEW MEXICO - Delete Eddy County following Roswell.

CEIR 15(23):567 - SPIDER MITES - NEW MEXICO - Should read: "... Chaves County, south of Roswell; ..."

LIGHT TRAP COLLECTIONS

	Temperature	Precipitation	Type of trap	Arctia (black cutworm)	Carpeas pomonella (coddling moth)	Choristagrotis auxillaris (army cutworm)	Stigmene acrea (salt-marsh caterpillar)	Faenella diffusa (wheat head armyworm)	Peltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	B. zea (bollworm, corn earworm, tomato fruitworm)	Loxostege compositalis (alfalfa webworm)	Loxostege sticticalis (beet webworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (plum-tree cutworm)	Podenia ornithogalli (yellow-striped armyworm)	Protoparce quinquefasciata (tomato hornworm)	Protoparce sexta (tobacco hornworm)	Pseudaleia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Crops
ARKANSAS				1								4	0		0				6			
Hope 6/17-23				0							11	0			0				3			
Kelso 6/9-23																						
FLORIDA			BL						1							2		1				
Gainesville 6/22																						
GEORGIA			BL																			
Tifton 6/3-10	68-87	3.76																				
Tifton 6/11-15	63-89	0.12	BL																			
ILLINOIS (County)																						
Champaign 6/18-24	53-82	0.14		96																	7	
MICHIGAN (Counties)			BL																			
Berrien 6/15-21				12										68	10	2				128		
Branch 6/15-21			BL	5										61	3	2				39		
Kalamazoo 6/15-21			BL	2										11	0	1				18		
Jackson 6/15-21			BL	1										3	0	0				17		
Livingston 6/15-21			BL	3										40	6	0				56		
Ionina 6/15-21			BL	4										51	6	2				64		
Saginaw 6/15-21			BL	8										23	4	0				32		
Sanilac 6/15-21			BL	4										32	3	0				49		
Bay 6/15-21			BL	2										12	0	0				18		
Ogemaw 6/15-21			BL	7										0	4	0				29		
Menominee 6/15-21			BL	1										0	2	0				20		
MINNESOTA																						
Shakopee 6/12-18				0										0	0					4		
Shakopee 6/19-25				0										0	0					7		
Worthington 6/12-18				0										3	0					26		
Worthington 6/19-25				13										15	0					37		
Fergus Falls 6/12-18				0										2	0					11		
Fergus Falls 6/19-25				1										0	1					22		
Crookston 6/12-18				0										0	0					19		
Crookston 6/19-25				0										0	0					0		
Rochester 6/19-25				0										0	0					2		
MISSISSIPPI																						
Stoneville 6/18-24	59-91	trace	2 BL	9										13	104					35	1	1
Rolling Fork 6/18-24	58-91	trace	BL	1											23	2				3	17	
Tunica 6/18-24	55-92	trace	BL	5											3	125				13	3	
MISSOURI																						
Portageville 6/18-25				2										21	5	78				15		

* BL = blacklight; I = incandescent; MV = mercury vapor; 0 = other

** alf. = alfalfa; beet = garden beet and/or sugar beet; cole = cole crops (crucifers); cott. = cotton; TC = field corn; grain = small grains; leg. = legumes (unspecified); lett. = lettuce; pean. = peanut; pepp. = pepper; pot. = potatoes; SC = sweet corn; sol. = solanaceous plants (unspecified); soy. = soybean; TC = truck crops (unspecified or mixed); tob. = tobacco; tom. = tomato.

LIGHT TRAP COLLECTIONS

Temperature F.	Precipitation inches	Type of trap *	Carpenter worm	Codling moth	Chorizaga auctilata	Army worm	Estigmene acraea	Farina diffusa	Polia subterranea	Hyalothys picticornis	N. zealandica	Loxostege compositella	Loxostege sticticalis	Loxostege sticticalis	Ostrinia nubilalis	Peridroma saucia	Prodenia ornithogalli	Protoparce quinguenaculata	Protoparce hexa	Pseudococcus unipuncta	Spodoptera exigua	Spodoptera (leaf miner)	Spodoptera (fall armyworm)	Triphaena at	Crops
NEBRASKA																									
Bushnell 6/8-14																									
Chappell 6/7-13																									
North Platte 6/11-17																									
Ogallala 6/8-16																									
NEW JERSEY																									
Edinburg 6/21, 25																									
Masonville 6/21, 25																									
Seabrook 6/21, 25																									
Aura 6/21, 25																									
Hardingville 6/ 21, 25																									
Hurffville 6/21, 25																									
OHIO (Counties)																									
Licking 6/17-24		BL																							
Wayne 6/16-23		BL																							
Franklin 6/20-21		BL																							
SOUTH CAROLINA																									
Charleston 6/21-27	62-86	0.30	BL																						
SOUTH DAKOTA																									
Brookings 6/16-24			16																						
TENNESSEE (Counties)																									
Knox 6/15-21			16																						
Johnson 6/15-21			10																						
TEXAS																									
Waco 6/19-25			13																						
WISCONSIN																									
Platteville 6/17-21			0																						
Mazomanie 6/16-20			0																						
Madison 6/16-22			0																						
Middleton 6/16-22	39-89		2	16																					
Arlington 6/15-21			2	5																					
Hancock 6/14-21			0																						
Beaver Dam 6/15-21			0																						
Fox Lake 6/15-21			0																						
Danville 6/17-21			0																						
Wayne 6/16-21			1																						
Theresa 6/16-21			1																						
Nenno 6/18-21			0																						
Ripon 6/15-21			0																						
Rosendale 6/15-21			1																						
Cedar Grove 6/15-21			0																						
WYOMING																									
Cheyenne 6/7-19			2																						

* BL = blacklight; I = incandescent; MV = mercury vapor; 0 = other
 ** alf. = alfalfa; beet = garden beet and/or sugar beet; cole = cole crops (crucifers); cott. = cotton; FC = field corn;
 grain = small grains; leg. = legumes; lettuce = lettuce; pan. = peanut; pepp. = pepper; pot. = potatoes;
 SC = sweet corn; sol. = solanaceous plants (unspecified); soy. = soybean; TC = truck crops (unspecified or mixed);
 tob. = tobacco; tom. = tomato.

STATUS OF THE SCREW-WORM (*Cochliomyia hominivorax*) IN THE SOUTHWEST

During the period June 20 - 26, a total of 54 cases was reported in the Southwestern Eradication Area, as follows: TEXAS - Irion 1, Kenedy 1, Kinney 1, Maverick 3, Sterling 7, Terrell 1, Webb 5, Webb 5, Real 1, Zavala 6, Karnes 1, Medina 1, Glasscock 3, Uvalde 4, Bexar 1, Frio 1, Dimmit 1, Live Oak 1. ARIZONA - Pinal 1, Yuma 2, Gila 1, Greenlee 1, Pima 4, Santa Cruz 1, Cochise 2, Maricopa 1, Yavapai 1. NEW MEXICO - Grant 1. The Republic of Mexico reported 188 cases: Territory of Baja California Sur 25, Baja California 4, Tamaulipas 2, Coahuila 12, Chihuahua 22, Sonora 54, San Luis Potosi 19, Veracruz 4, Durango 46. Sterile screw-worm flies released: Texas 25,028,250, New Mexico 2,240,000, Arizona 8,560,000, the Republic of Mexico 61,280,000.

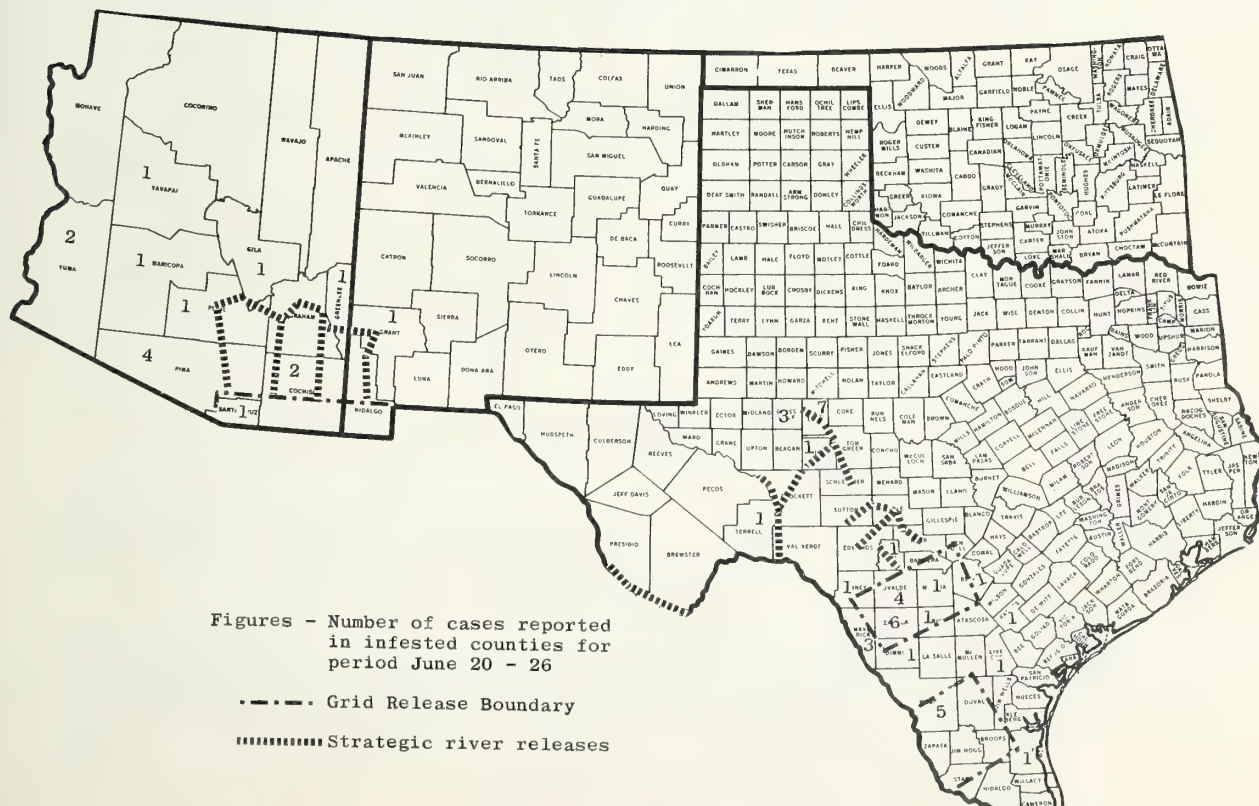
Positive Cases Negative Cases Ratio of Positive Cases to 100 Cases Negative

Year	Current	Cumulative	Current	Cumulative	Current	Cumulative
Table 1. Comparison of specimens reported during corresponding weeks in 1963 and 1964 in Southwestern Eradication Area. (1965 area figures include cases reported from Arizona and/or California; 1964 figures reflect those from the 5-State area).						
1963	139	1,761	144	3,901	96.52	45.14
1964	7	87	118	3,787	5.93	2.29
1965	54	278	155	2,964	34.83	9.37

Table 2. Comparison of specimens reported during corresponding weeks and in a corresponding area in 1964 in the United States-Mexico Barrier Zone.*						
1964	57	767	44	987	129.54	77.71
1965	155	2,069	64	1,153	242.18	179.44

Table 2A. Mexican portion of Barrier Zone only.						
1964	51	707	26	370	196.15	191.08
1965	119	1,844	33	610	360.60	302.29

* Barrier Zone - Area in which screw-worm eradication operations are being carried out in an effort to prevent establishment of self-sustaining screw-worm population in the United States. (Anim. Dis. Erad. Div.).



Figures - Number of cases reported in infested counties for period June 20 - 26

--- Grid Release Boundary

..... Strategic river releases

INTERCEPTIONS OF SPECIAL INTEREST AT U.S. PORTS OF ENTRY

Some important interceptions that were reported by the Plant Quarantine Division, ARS, USDA, during May 1965, follow. These reports are based on identifications received from Federal taxonomists at the U.S. National Museum during the month, and include any of special interest from recent months that were not previously reported.

GIANT AFRICAN SNAIL (Achatina fulica Bowdich) 3 times in air baggage at Honolulu, Hawaii. Achatina sp. once in ship baggage at Philadelphia, Pennsylvania.

A TEPHRITID FLY (Anastrepha sp.) once in Psidium sp. in air baggage at San Pedro, California.

A DARKLING BEETLE (Blapstinus sp.) (believed of some economic significance to some field crops) 3 times with cargo of melons at New York, New York.

A SEED BEETLE (Bruchus lentis Froel.) once in ship's stores in lentils at Miami, Florida.

A SEED BEETLE (Callosobruchus analis (F.)) (widespread pest of legumes) once in ship's stores at Seattle, Washington; once in cargo of mung beans at New York, New York.

MEDITERRANEAN FRUIT FLY (Ceratitis capitata (Wied.)) 13 times; Honolulu (10), Hawaii; New York (1), New York; San Francisco (2), California.

ASIATIC RICE BORER (Chilo suppressalis (Walker)) twice in mail at Honolulu, Hawaii.

ORIENTAL FRUIT FLY (Dacus dorsalis Hendel) 8 times; at Honolulu (7), Hawaii; San Francisco (1), California.

A BOLLWORM (Earias sp.) once in okra pods in air baggage at New York, New York. (Three species of this genus are very serious pests of cotton and okra and are widely distributed in all major cotton-growing areas of the world except the Americas.).

A SPRUCE CONE MOTH (Laspeyresia strobilella (L.)) in cargo of Picea sp. cones at Baltimore, Maryland.

EGGPLANT FRUIT BORER (Leucinodes orbonalis Guen.) once in ship's stores at New York, New York.

COTTONSEED BUG (Oxycarenus hyalinipennis (Costa)) once in mail at District of Columbia Plant Inspection Station.

AN AVOCADO SEED MOTH (Stenoma catenifer (Wlsm.)) once at Mobile, Alabama; once in crew baggage at New York, New York.

A FRUIT-TREE SPIDER MITE (Tetranychus viennensis Zacher) (pest of apples and pears in Europe and Japan) once in air stores at Seattle, Washington.

WHITE GARDEN SNAIL (Theba pisana (Müller)) 54 times; at Baltimore (1), Maryland; Charleston (3), South Carolina; Chicago (1), Illinois; Dover (2), Delaware; New York (1) and John F. Kennedy International Airport (6), New York; New Orleans (9), Louisiana; Norfolk (3), Virginia; Port Everglades (3), Florida; San Juan (3), Puerto Rico; Wilmington (21), Delaware; Boston (1), Massachusetts.

KHAPRA BEETLE (Trogoderma granarium Everts) (or probably that species) 72 times; Baltimore (8), Maryland; Boston (1), Massachusetts; Charleston (12), South Carolina; Detroit (1), Michigan; Dulles International Airport (1), Virginia; Galveston (1) and Houston (1), Texas; Honolulu (1), Hawaii; Mobile (2), Alabama;

New Orleans (1), Louisiana; New York (23), New York; Philadelphia (6), Pennsylvania; Port Everglades (1), Florida; San Diego (1), San Pedro (1) and San Francisco (3), California; San Juan (1), Puerto Rico; Savannah (3), Georgia; Seattle (2), Washington; Wilmington (2), Delaware.

OAT CYST NEMATODE (Heterodera avenae) 13 times; at Seattle (6), Washington; Portland (2), Oregon; Dulles International Airport (1), Virginia; McGuire AFB (1), New Jersey; John F. Kennedy International Airport (1), New York; Mobile (1), Alabama; Toledo (1), Ohio.

GRASS CYST NEMATODE (Heterodera punctata) once at Dulles International Airport, Virginia.

GOLDEN NEMATODE (Heterodera rostochiensis) 13 times; John F. Kennedy International Airport (3), New York; Boston (2), Massachusetts; McGuire AFB (2), New Jersey; Cleveland (1), Ohio; San Diego (1) and San Francisco (1), California; Savannah (1), Georgia; Seattle (1), Washington; District of Columbia Plant Inspection Station (1).

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